Summer classes: June 17 - July 25
Fall classes: August 26 - December 14
MISSION STATEMENT
Norco College serves our students, our community, and its workforce by providing educational opportunities, celebrating diversity, and promoting collaboration. We encourage an inclusive, innovative approach to learning and the creative application of emerging technologies. We provide foundational skills and pathways to transfer, career and technical education, certificates and degrees.

ACCOUNTING

ACC-1A
Principles of Accounting I 3 UNITS
Prerequisite: None
Advisory: BUS-20
Description: An introduction to accounting principles and practice, as a manual and/or computerized information system that provides and interprets economic data for economic units within a global society. Includes recording, analyzing, and summarizing procedures used in preparing financial statements. 54 hours lecture.
35202 Last Day to add: 06/21/19
HYB 06/17/19 07/25/19 08:00AM 10:05AM MW WEQW7 06/17/19 07/25/19 ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: D White

ACC-1B
Principles of Accounting II 3 UNITS
Prerequisite: ACC-1A
Description: A study of managerial accounting principles and information systems including basic concepts, limitations, tools and methods to support the internal decision-making functions of an organization. 54 hours lecture.
35203 Last Day to add: 06/21/19
HYB 06/17/19 07/25/19 10:35AM 12:40PM MW WEQW6B 06/17/19 07/25/19 ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: D White

ACC-62
Payroll Accounting 3 UNITS
Prerequisite: ACC-1A or ACC-55
Description: Studies accounting for payroll and examines aspects of the Social Security Act, California Unemployment Insurance Act and the California Workers Compensation Insurance Act. Payroll principles applied through the use of microcomputers. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
35000 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: P Worsham

ACC-66
Non-Profit and Governmental Accounting 3 UNITS
Prerequisite: ACC-1A
Advisory: BUS-20
Description: A study of the principles and practices of non-profit and governmental entities fund accounting. Topics include accounting concepts, types and structure of funds and accounts, application of generally accepted accounting principles to non-profit and governmental organizations. 54 hours lecture.
35001 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: P Worsham

Our Online and Hybrid courses are now being taught exclusively in the Canvas learning management system (LMS). To see instructions on how to log-in, how to reach Canvas support, and to view Online student readiness tutorials, please go to the Student Page on the Distance Education Website at www.opencampus.com/students_canvas.
ADMINISTRATION OF JUSTICE

ADJ-1
Introduction to the Administration of Justice. Same As Jus-1 3 UNITS
Prerequisite: None
Description: The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems, role expectations, and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education, and training for professionalism in the system. 54 hours lecture.
Instructor: M Leese

OL 06/17/19 07/25/19 ONLINE
35003 Last Day to add: 06/22/19
WE 06/18/19 07/25/19 01:00PM 04:05PM MTWTH HUM111
The above section is an online class. Computer with Internet access required.
Instructor: M Leese

ADJ-3
Concepts of Criminal Law 3 UNITS
PREREQUISITE: None.
Description: Historical development, philosophy of law and constitutional provisions; definitions, classification of crimes, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force. 54 hours lecture.
Instructor: M Leese

ANTHOPOLOGY

ANT-1
Physical Anthropology 3 UNITS
Prerequisite: None
Description: An introduction to human biological evolution, physical diversity, and relationship to the animal world, using scientific and comparative methods. Incorporates the study of genetics, fossils, primates, and modern human variation within an evolutionary framework. Students may not receive credit for both ANT-1 and ANT-1H. 54 hours lecture.
Instructor: A Gray

WE 06/17/19 07/25/19 01:00PM 03:10PM MTWTH HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: A Gray

ANT-1L
Physical Anthropology Laboratory 1 UNIT
Prerequisite: None
Corequisite: Concurrent enrollment in or prior completion of ANT-1 or 1H required.
Description: Laboratory course exploring case studies and problems of human genetics, human variation, the identification of fossils through examination of fossil casts, human evolution, the study of the human skeleton, observation of primate behavior and structures utilizing the scientific method. 54 hours laboratory.
Instructor: P Roberts

ART

ART-6
Art Appreciation 3 UNITS
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. (Letter Grade, or Pass/No Pass option.)
Instructor: Staff


Instructor: Q Bemiller
35137 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 07:00AM 09:50AM MTWTH HUM111
The above section is an online class. Computer with Internet access required.
Instructor: K Skiba
BIOLOGY

BIO-1

General Biology 4 UNITS

Prerequisite: None.

Description: An introductory course designed for non-science majors that offers an integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussions on the philosophy, concepts, and implications of modern biology will be included. Students may not receive credit for both BIO-1 and BIO-1H. 54 hours lecture and 54 hours laboratory. (Letter Grade only)

Instructor: V Sharma  O Kim

BIO-4

Survey of Human Anatomy and Physiology 3 UNITS

Prerequisite: None.

Description: An introductory and survey course of structural and functional aspects of the human body. Emphasis is placed on cell organization, human tissues, and discussion of each of the human systems. 54 hours lecture.

Instructor: F Almasarweh

BIO-18

Human Genetics (formerly Bio-34) 3 UNITS

Prerequisite: None.

Advisory: High school biology or any college life science course with laboratory.

Description: A general education course for non-biology majors and allied health students who are interested in the underlying mechanisms of human heredity. Emphasis will be given to the role of genetics and environment on cells, individuals, family and human populations. Discussion on human genetic disorders and the social implications of modern human genetics will be included. 54 hours lecture.

Instructor: J Drainville

BIO-7

Marine Biology 4 UNITS

Prerequisite: None.

Description: An ecological study of the marine environment. Emphasis will be placed on the local marine algae, plants, and animals and their interactions with the physical environment. Frequent field trips are combined with laboratory observations to acquaint the student with the identification and understanding of the common marine organisms of the Southern California coastline. 54 hours lecture and 54 hours laboratory

Instructor: B Moore

35010

Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH WEQW4
The above section is a web-enhanced class. Internet access is required.

Instructor: B May

ART-17

Beginning Drawing 3 UNITS

Prerequisite: None.

Description: An introduction to the fundamentals of drawing in a variety of media. The exploration of the elements of art, the principles of composition, perspective and the development of observational, motor and creative skills. Emphasis will be on black and white media. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade only)

Instructor: Q Berniller

BIO-1

General Biology 4 UNITS

Prerequisite: None.

Description: An introductory and survey course of structural and functional aspects of the human body. Emphasis is placed on cell organization, human tissues, and discussion of each of the human systems. 54 hours lecture.

Instructor: V Sharma

BIO-7

Marine Biology 4 UNITS

Prerequisite: None.

Description: An ecological study of the marine environment. Emphasis will be placed on the local marine algae, plants, and animals and their interactions with the physical environment. Frequent field trips are combined with laboratory observations to acquaint the student with the identification and understanding of the common marine organisms of the Southern California coastline. 54 hours lecture and 54 hours laboratory

Instructor: B Moore
BIO-50A
Anatomy and Physiology I (formerly Amy-2a)  4 UNITS
Prerequisite: BIO-1 or BIO-1H or BIO-4 or BIO-55 or BIO-60 or BIO-60H
Description: First of a two course sequence that introduces students to the basic concepts and principles of anatomy and physiology. This course will provide a foundation for advanced study of the human body. The course covers body orientation and organization, cells and tissues, the skeletal and muscular systems, and the eye and ear. Designed to meet the prerequisites for professional programs, e.g., nursing, dental hygiene, and physical therapy. 36 hours lecture and 108 hours laboratory.

Instructor: J Marion
35143 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 09:20AM MTWTH ST207
06/17/19 07/25/19 09:45AM 02:10PM MTWTH ST207

The above section is a web-enhanced class. Internet access is required.

BIO-50B
Anatomy and Physiology II (formerly Amy-2b)  4 UNITS
Prerequisite: BIO-50A
Description: First of a two course sequence that introduces students to the basic concepts and principles of anatomy and physiology. This course will provide a foundation for advanced study of the human body. The course covers body orientation and organization, cells and tissues, the skeletal and muscular systems, and the eye and ear. Designed to meet the prerequisites for professional programs, e.g., nursing, dental hygiene, and physical therapy. 36 hours lecture and 108 hours laboratory.

Instructor: M Donovan
35146 Last Day to add: 06/22/19
WE 06/17/19 08/08/19 08:00AM 09:50AM MTWTH ST203

BUSINESS ADMINISTRATION

BUS-10
Introduction to Business  3 UNITS
Prerequisite: None.
Description: Scope, function and organization of contemporary business; fundamentals, concepts, principles, and current practices in the major areas of business activity with an integrated global perspective. 54 hours lecture. (Letter Grade only)

35020 Last Day to add: 06/22/19
HYB 06/18/19 07/25/19 08:00AM 10:15AM TTH HUM102
06/18/19 07/25/19 08:00AM 10:15AM ONLINE

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: D Dokter

BUS-20
Business Mathematics  3 UNITS
Prerequisite: None
Description: An introduction to quantitative approaches for solving common business problems using general mathematics and first degree equations. Includes the development and solution of problems in the areas of business statistics, trade and cash discounts, markups and markdowns, perishables, payroll, taxes, simple interest, promissory notes, compound interest, present and future value, annuities and sinking funds, installment buying and credit cards, home ownership costs, insurance, stocks and bonds, mutual funds, financial reports, depreciation, inventory, and overhead. 54 hours lecture.

35021 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: I McGuire

BUS-47
Applied Business and Management Ethics  3 UNITS
Prerequisite: None
Description: An examination of ethical concerns in business decision making. Includes corporate, personal, global, governmental, public, environmental, product, and job-related issues. Case studies and corporate ethics programs and audits also covered. 54 hours lecture. (Letter Grade, or Pass/No Pass option)

35022 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: D Dokter
BUS-87
Purchasing and Supply Management  3 UNITS
Prerequisite: None.
Description: Study of the purchasing and supply manager's responsibilities including the identification, acquisition, positioning and management of materials, services and equipment that organizations need to attain their goals. Emphasis is on decision making, integration with suppliers, critical internal relationships, and customer (end user) service. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
35023  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: R Beck

CHEMISTRY
CHE-2A
Introductory Chemistry, I  4 UNITS
Prerequisite: MAT-52
Description: Introduction to the nature of chemicals, their properties, chemical bonding, reactions, and mixtures. Applications to health and environmental topics. Fulfills the needs of non-science majors. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
35025  Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 11:05AM MTH ATEC114
06/17/19 07/25/19 11:30AM 02:35PM MTH HUM204
The above section is a web-enhanced class. Internet access is required.
Instructor: A Duggal

CIS-1A
Intro to Comp Info Sys  3 UNITS
Prerequisite: None.
Description: An introduction to computer concepts and theory, information systems, and computer applications. The development of computer based solutions to business problems using word processors, spreadsheets, databases, presentation graphics, and the Internet.
35027  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: J Perry

CIS-5
Programming Concepts and Methodology I: C++  4 UNITS
Prerequisite: None.
Advisory: CIS-1A
Description: Introduction to the discipline of computer science incorporating problem definitions, algorithm development, and structured programming logic for business, scientific and mathematical applications. The C++ language will be used for programming problems. 54 hours lecture and 54 hours laboratory.
35031  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: T Pryor
COMMUNICATION STUDIES

COM-1
Public Speaking 3 UNITS

Prerequisite: None
Advisory: COM-51 and qualification for ENG-1A
Description: Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will include: different purposes of speaking, types of speeches and organizational patterns, topic choice and audience adaptation, rhetorical principles, development and support of sound reasoning and argument, theories of persuasion, application of ethics in public speaking, listening skills, and theory and principles of effective delivery. Students will speak formally for a minimum of 20 total semester minutes. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

35134 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH LIBR109
OL 06/17/19 07/25/19 ONLINE

The above section is a web-enhanced class. Internet access is required.

Instructor: A Tufano

35135 Last Day to add: 06/21/19
HYB 06/17/19 07/25/19 10:35AM 12:45PM MW LIBR109
06/17/19 07/25/19 10:35AM 12:45PM HYB ONLINE

The above section is a hybrid class. Computer with Internet access required.

Instructor: E Romero

35136 Last Day to add: 06/21/19
HYB 06/17/19 07/25/19 10:35AM 12:45PM TTH LIBR109
06/17/19 07/25/19 10:35AM 12:45PM HYB ONLINE

The above section is a hybrid class. Computer with Internet access required.

Instructor: E Romero

35132 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 01:00PM 03:10PM MTWTH LIBR109
06/17/19 07/25/19 01:00PM 03:10PM WE ONLINE

The above section is a web-enhanced class. Internet access is required.

Instructor: R Stinson

35133 Last Day to add: 06/21/19
WE 06/17/19 07/24/19 06:00PM 08:50PM MTW IT210
The above section is a web-enhanced class. Internet access is required.

Instructor: B Rihan

COM-2
Interpersonal Communication 3 UNITS

Prerequisite: None
Advisory: COM-51 and qualification for ENG-1A
Description: Analyzes the dynamics of the two-person communication process in relationships. Students study values, communication models, listening, verbal and nonverbal communication, perception, self-concept, self-disclosure, management of emotions, relationship theories and conflict management. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

35034 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH IT210
The above section is a web-enhanced class. Internet access is required.

Instructor: R Stinson

35033 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 10:35AM 12:45PM MTWTH IT210
The above section is a web-enhanced class. Internet access is required.

Instructor: M Lewis

35032 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 03:30PM 05:40PM MTWTH IT210
The above section is a web-enhanced class. Internet access is required.

Instructor: R Stinson

COM-3
Intercultural Communication 3 UNITS

Prerequisite: None
Advisory: COM-51 and qualification for ENG-1A
Description: Introduction to the factors affecting intercultural communication focusing on culture, language, and social patterns and their influence on how members of groups relate among themselves and with members of different ethnic and cultural groups. Theory and knowledge of effective communication within and between cultures and the context of American culture are explored with an emphasis on self-evaluation and skill development. 54 hours lecture. (Letter Grade or Pass/No Pass option.)

35140 Last Day to add: 06/21/19
LEC 06/17/19 07/24/19 06:00PM 08:50PM MTW CRCRCRL600
The above class is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: A Tufano

35142 Last Day to add: 06/21/19
LEC 06/17/19 07/24/19 06:00PM 08:50PM MTW CRCRCRL3
The above class is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: S Bee

EARLY CHILDHOOD EDUCATION

EAR-20
Child Growth and Development  
3 UNITS
Prerequisite: None
Description: This introductory course examines the major physical, psychosocial, and cognitive/linguistic developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Outside observations required. 54 hours lecture. (Letter Grade only.)

35037  Last Day to add: 06/22/19
OL 06/17/19 07/25/19  ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.
Instructor: H Alvarado

EAR-24
Child, Family, and Community  
3 UNITS
Prerequisite: None
Description: This course will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. Lab hours will be completed under the direction of a qualified Master Teacher (Child Development Permit Matrix, California Commission on Teacher Credentialing) with 3 units of supervised field experience in ECE setting. 36 hours lecture and 108 hours laboratory.

35180  Last Day to add: 06/17/19
WE 06/13/19 07/25/19 01:25PM 02:45PM MTFWTH TBC1
06/13/19 07/25/19 08:30AM 12:55PM MTFWTH TBC1
The above section is a web-enhanced class that has lab and lecture hours that will be completed at Temple Beth El Child Development (TBECD, 2675 Central Avenue, Riverside, 951-682-7282. This class includes 36 Lecture hours and 108 Lab hours. The first Lecture class will meet at Temple Beth El on 6/13/19, the week before the summer session starts. The remaining Lecture hours will be held from 1:25-2:45 Monday through Thursday at Temple Beth El in Room 1. The Lab hours will start on 6/17/19 at Temple Beth El and will be held from 8:30-12:55 Monday through Thursday. Pursuant to California Law SB792 all students enrolled in this class must have proof of immunization against measles, pertussis (Tdap), and tuberculosis (TB), by the first day of the semester. Immunizations and TB tests can be obtained at any RCCD Health Services office, or through your personal health provider. In order to take the practicum you must have your health provider, or any RCCD Health Services center, complete the Child Development Course Clearance Checklist, and bring it with you on the first day of the class. Copies of the clearance form can be located at https://www.rcc.edu/departments/earlychildhoodstudies/Documents/ECE%20Checklist%20(final).docx. Please check the form for timelines that need to be met for the identified immunizations.
Instructor: S Burnett

EAR-28
Infant and Toddler Care and Education  
3 UNITS
Prerequisite: None
Description: Applies current theory and research to the care and education of infants and toddlers in group settings. Examines essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. 54 hours lecture. (Letter Grade only.)

35138  Last Day to add: 06/21/19
WE 06/17/19 07/25/19 10:25AM 12:45PM MTFWTH T209
The above section is a web-enhanced class. Internet access is required.
Instructor: R Carreon-Bailey

EAR-30
Practicum in Early Childhood Education  
4 UNITS
Prerequisite: EAR-20 and EAR-24 and EAR-28 and EAR-42
Description: In this course the student will practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of ECE/CD faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. Lab hours will be completed under the direction of a qualified Master Teacher (Child Development Permit Matrix, California Commission on Teacher Credentialing) with 3 units of supervised field experience in ECE setting. 36 hours lecture and 108 hours laboratory.

35139  Last Day to add: 06/22/19
OL 06/17/19 07/25/19  ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.
Instructor: T Oliver

EAR-34
Child, Family, and Community  
3 UNITS
Prerequisite: None
Description: A study of theories that address communication styles including similarities and differences between masculine and feminine gender types. Integrates theories to heighten students’ awareness of the importance of gender as a communication variable. Theoretical approaches to the development of gender are discussed. Gender communication issues are addressed with an emphasis on listening, perception, verbal, nonverbal communication, and conflict management in interpersonal, small group and various other contexts. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

ECONOMICS

ECO-7  
Principles of Macroeconomics 3 UNITS  
Prerequisite: MAT-52  
Advisory: MAT-35 and qualification for ENG-1A  
Description: Economic theory and analysis as applied to the U.S. economy as a whole. Emphasizes aggregative economics dealing with the macroeconomic concepts of national income and expenditure, aggregate supply and demand, fiscal policy, monetary policy, and economic stabilization and growth. Students may not receive credit for both ECO-7 and ECO-7H. 54 hours lecture.  
35041  Last Day to add: 06/21/19  
WE 06/17/19 07/25/19 10:25AM 12:35PM MTWTH WEQW4  
The above section is a web-enhanced class. Internet access is required.  
Instructor: P Boelman

ELECTRICITY

ELC-76  
Low Voltage Wiring and Alternate Energy Generation (same As Elc-76) 3 UNITS  
Prerequisite: None  
Course Credit Recommendation: Degree Credit  
Description: Introduces electricians to the specialized needs and requirements of institutional, educational and government entities, along with overlapping demands of other specialty areas that include access-control, security/safety, flood, fire and gas detection, environmental controls and renewable energy systems, patient-monitoring, nurse-call, closed-circuit television (CCTV), Internet-Intercom and phone systems and remote-monitoring and control applications. 36 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)  
35184  Last Day to add: 06/23/19  
WE 06/18/19 08/08/19 06:00PM 07:20PM TWTH ATEC119  
The above section is a web-enhanced class. Internet access is required.  
Instructor: T Childers

ENGINEERING

ENE-60  
Math for Engineering Technology 3 UNITS  
Prerequisite: None.  
Description: Math problems used in industry, including basic arithmetic, algebra, geometry and trigonometry.  
35043  Last Day to add: 06/21/19  
WE 06/17/19 07/24/19 06:00PM 08:50PM MTW CACT1  
The above section is a web-enhanced class. Internet access is required.  
Instructor: A Johnson
Moving through English, ESL and Reading

English Composition at Norco College

Every student has the right to enroll directly into English 1A without taking English 91. If you would like more information on enrolling directly into English 1A without 91, see the challenge/opt in process at the Counseling Office.

**Note:** Research shows that taking even one class below college-level composition (such as English 50) will make it less likely for students to complete English 1A. However, Norco College may offer sections of English 50 for students who wish to opt into this pathway. No students will be placed into English 50 automatically.

**ENG-1A***
English Composition

**ENG-1B***
Critical Thinking and Writing

**ENG-1A*** + **ENG 91***
English Composition +
Academic Support for English 1A

Moving Through Reading

**REA-83***
College Reading &
Thinking

Moving with reading and writing skills and strategies to get you to reading competency and prepare you for English 1A and other content area courses in STEM, Social Sciences, and Humanities.

**REA-3***
Reading for Academic Success

Reading 3 provides students with a study of fundamental academic and content-area specific reading skills and strategies needed for success in college and beyond. This course meets the reading competency graduation requirement.

Transferable Reading Courses

**REA-3***
Reading for Academic Success

**REA-4***
College Reading as Critical Thinking

REA 3 provides students with a study of fundamental academic and content-area specific reading skills and strategies needed for success in college and beyond. This course meets the reading competency graduation requirement.

REA 4 satisfies the critical thinking requirement at CSU. This course centers on reading persuasive writing and argument. Students use critical thinking to analyze and evaluate ideas encountered in academic reading.

* Indicates CSU Transferable course
** Satisfies CSU Critical Thinking requirement

ESL-72
Intermediate

ESL-93**
Advanced

ESL-73**
High Intermediate

ESL-92
Intermediate

ESL-53
Intermediate

ESL-54*
High Intermediate

ESL-55*
Advanced

ESL-53
Intermediate

Shaded areas indicate possible course placements

* Indicates UC/CSU transferable course
** Associate Degree applicable only

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ENGLISH

PLACEMENT GUIDELINES

ENGLISH COMPOSITION COURSES

ENGLISH 1B/1BH

• A grade of C or better in ENG-1A/1AH

ENGLISH 1A/1AH

• Qualifying preparation score based on the ACCUPLACER® test and academic background; or
• A grade of C or better in ENG-50
• Approved alternative placement method (see Counseling for available options)

ENGLISH 50

• Qualifying preparation score based on the ACCUPLACER® test and academic background; or
• Successful completion of ENG-60B or ESL-55

ENGLISH 1A

English Composition 4 UNITS

Prerequisite: ENG-50 or ENG-80 or qualifying placement level

Description: Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will produce a minimum of 10,000 words of instructor-evaluated writing. Classroom instruction integrates writing lab activities. Students may not receive credit for both ENG-1A and ENG-1AH. 72 hours lecture and 18 hours laboratory. (TBA option)

Instructor: S Hanson
35044 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: D Samson
35048 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: C Gomez
35050 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: T Wallace
35046 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: J Reade
35052 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: J Reed
35045 Last Day to add: 06/21/19
WE 06/17/19 07/24/19 09:00AM 12:50PM MTW IT123
06/17/19 07/24/19 02:00PM 02:50PM MTW IT121

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: L Hernandez
35049 Last Day to add: 06/21/19
HYB 06/17/19 07/25/19 02:00PM 05:50PM MW IT110
06/17/19 07/25/19 08:00PM 08:50PM MW IT125

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: J Gianunzio
35047 Last Day to add: 06/21/19
WE 06/17/19 07/24/19 04:00PM 07:50PM MTW WEQW6B
06/17/19 07/24/19 08:00PM 08:50PM MTW IT125

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: J Hill
ENG-1B

Critical Thinking and Writing 4 UNITS

Prerequisite: ENG-1A or ENG-1AH

Description: Building on the rhetorical skills learned in ENG 1A, students will analyze, interpret, and synthesize diverse texts in order to construct well-supported academic arguments and literary analyses. Composition totaling a minimum of 10,000 words serves to correlate writing and reading activities. Classroom activities integrate with writing lab activities. Student may not receive credit for both ENG-1B and 1BH. 72 hours lecture and 18 hours laboratory. (TBA option)

35057  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
06/17/19  07/25/19  ONLINE

The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: L Nelson

35058  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
06/17/19  07/25/19  ONLINE

The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: S Camacho

35059  Last Day to add: 06/22/19
WE  06/17/19  07/24/19  09:00AM  12:50PM  MTW  IT110
06/17/19  07/24/19  01:00PM  01:50PM  MTW  IT121

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: D Mills

35060  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  10:00AM  01:50PM  MTW  IT206
06/17/19  07/24/19  02:00PM  02:50PM  MTW  IT121

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: R Marsh

35061  Last Day to add: 06/21/19
HYB  06/17/19  07/25/19  10:30AM  12:50PM  TTH  IT208
06/17/19  07/25/19  ONLINE
06/17/19  07/25/19  ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: J Dobson

35062  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  04:00PM  07:50PM  MTW  IT111
06/17/19  07/24/19  08:00PM  08:50PM  MTW  IT121

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: D Mattson

35065  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  08:00AM  11:50AM  MTW  IT106
06/17/19  07/24/19  12:00PM  12:50PM  MTW  IT106

The above section is a web-enhanced class. Internet access is required.

Instructor: M Shirinian

35076  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  06:30PM  09:20PM  MTW  ATEC118

The above section is a web-enhanced class. Internet access is required.

Instructor: J Coverdale

ESL-72

Intermediate Reading and Vocabulary 4 UNITS

Prerequisite: None

Advisory: ESL-71 and ESL-53 or ESL-54

Description: Emphasizes the continued acquisition of reading skills needed for college level courses, expansion of receptive and productive vocabulary, and comprehension of medium-length adapted reading selections. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only)

35198  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  08:00AM  11:50AM  MTW  IT106
06/17/19  07/24/19  12:00PM  12:50PM  MTW  IT106

The above section is a web-enhanced class. Internet access is required.

Instructor: M Shirinian

GAME DEVELOPMENT

GAM-21

History of Video Games 3 UNITS

Prerequisite: None

Description: A comprehensive study of the evolution of video games throughout history including arcade games, console games, computer games and mobile applications.

35061  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  06:30PM  09:20PM  MTW  ATEC118

The above section is a web-enhanced class. Internet access is required.

Instructor: J Coverdale
GAM-35
Introduction to Computer Game Development 3 UNITS
Prerequisite: None.
Description: An introduction to computer gaming. Students will explore the job market, career paths and business aspects of gaming professions.
35062 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: J Finley

GAM-50
Introduction to Game Programming 3 UNITS
Prerequisite: None.
Description: A first course in programming for games stressing fundamental programming principles. Computer programming logic is introduced with hands on game development projects using an industry standard game engine. No previous computer programming experience is required. (Same as CIS-50)
35063 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: J Finley

GAM-80
Digital Drawing for Game Art 4 UNITS
Prerequisite: None
Description: Introduction to digital drawing techniques using industry standard software. Topics include usage of digital drawing hardware, digital image manipulation, techniques for digitally painting custom textures, exploration of the elements of art as they apply to games, composition, and perspective, layout design, character design, and concept development. Includes development of observational, motor, and creative skills. Use of layers, layer styles, adjustment layers and blending modes. 54 hours lecture and 54 hours laboratory. (TBA option)
35186 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH STEM115
06/17/19 07/25/19 10:30AM 12:40PM MTWTH STEM115
The above section is a web-enhanced class. Internet access is required.
Instructor: T Dunipace

GEOGRAPHY

GEG-1
Physical Geography 3 UNITS
Prerequisite: None
Description: The interacting physical processes of air, water, land, and life that impact Earth’s surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture.
35066 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH ATEC205
The above section is a web-enhanced class. Internet access is required.
Instructor: R Christov

GEG-35
Physical Geography Laboratory 1 UNIT
Prerequisite: Corequisite: GEG-1DE or GEG-1H
Description: Practical application of scientific principles through geographically based in-class exercises using a variety of tools, such as maps, photos, and data in various forms. 54 hours laboratory.
35068 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 10:20AM 12:30PM MTWTH ATEC205
The above section is a web-enhanced class. Internet access is required.
Instructor: R Christov

GUIDANCE

GUI-47
Career Exploration and Life Planning 3 UNITS
Prerequisite: None
Description: In depth career and life planning: topics include extensive exploration of one’s values, interests and abilities; life problem-solving and self-management skills; adult development theory and the changes that occur over the life span; self-assessment including identifying one’s skills and matching personality with work. An intensive career investigation; decision making, goal setting and job search strategies, as well as resume writing and interviewing skills will also be addressed. This course is designed to assist those students considering the transition of a career change or undecided about the selection of a college major. 54 hours lecture.
35196 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access is required.
See www.opencampus.com
Instructor: J Rubino

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WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online
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### HEALTH SCIENCE

#### HES-1
**Health Science (same As Bio-35)**  
3 UNITS  
**Prerequisite:** None  
**Description:** A basic study of various aspects of health including anatomy and physiology of the body, concepts of prevention, practical advises for healthy life style, treatments and cure of major diseases. This course satisfies the California requirement in drug, alcohol, tobacco and nutrition education for teacher certification.

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#### HISTORY

### HIS-6
**Political and Social History of the Unit**  
3 UNITS  
**Prerequisite:** None  
**Advisory:** REA-83 and qualification for ENG-1A  
**Description:** Political, social, and economic development of the United States from the pre-colonial background and colonial foundations to 1877; the evolution of American thought and institutions; principles of national, state, and local government. Students may not receive credit for both HIS-6 and HIS-6H. 54 hours lecture.

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### HIS-7
**United States History From 1865**  
3 UNITS  
**Prerequisite:** None  
**Advisory:** ENG-83 or ENG-50 or ENG-80 or qualification for ENG-1A  
**Description:** 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.

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HUMANITIES

HUM-10
World Religions 3 UNITS
Prerequisite: None
Advisory: REA-83 and qualification for English 1A
Description: Thought and concepts of the major religious systems, including primal religions, extinct religions, Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam. Students may not receive credit for both HUM-10 and HUM-10H. 54 hours lecture.
35072 Last Day to add: 06/22/19
WE 06/18/19 07/25/19 08:00AM 11:05AM TTH IT108
The above section is a web-enhanced class. Internet access is required.
Instructor: D Ketcham

KINESIOLOGY

KIN-4
Nutrition 3 UNITS
Prerequisite: None
Description: The principles of modern nutrition and its application. The importance of a scientific knowledge of nutrition, specific food nutrients and nutritional controversies. A study of modern convenience foods and their impact on present day diets. 54 hours lecture.
35192 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: S Witmer

KIN-10
Introduction to Kinesiology 3 UNITS
Prerequisite: None.
Description: The study of human movement, sub-disciplines in Kinesiology and career opportunities.
35074 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 01:30PM 03:40PM MTWTH WEQW3
The above section is a web-enhanced class. Internet access is required.
Instructor: D Bednarczyk

KIN-30
First Aid and CPR 3 UNITS
Prerequisite: None.
Description: Earn “National Safety Council Advanced First Aid” and “American Heart Association Healthcare Professional” certificates. First Aid and CPR fees totaling $20.00 will be charged to the student and are not covered by BOGW. Drop deadlines for non-payment apply.
35075 Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH WEQW3
The above section is a web-enhanced class. Internet access is required.
Instructor: S Witmer

KIN-A46
Hatha Yoga, Beginning 1 UNIT
Prerequisite: None.
Description: Develops physical and mental wellness by exercises for breathing, concentration, flexibility, strength and relaxation.
35077 Last Day to add: 06/21/19
WEL 06/17/19 07/25/19 10:35AM 12:45PM MTWTH WEQW2
The above section is a web-enhanced class. Internet access is required.
Instructor: L Zank

KIN-A64
Soccer 1 UNIT
Prerequisite: None
Description: This course is designed to introduce students to the rules, basic skills, and offensive/defensive strategy in soccer. Emphasis will be placed on improving individual skills and applying these skills to game situations. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
35078 Last Day to add: 06/21/19
WEL 06/17/19 07/25/19 08:00AM 10:10AM MTWTH SOCR1
The above section is a web-enhanced class. Internet access is required.
Instructor: D Rea

KIN-A77A
Jogging for Fitness, Beginning 1 UNIT
Prerequisite: None.
Description: This course is designed to introduce basic fitness concepts to improve each individual’s physical health and general well being. The course is geared to all ages and is concerned with aspects of cardiovascular health and weight control. Emphasis will be on building endurance and strength through jogging. KIN-A77A, A77B, and A77C are courses related in content and are limited in enrollment according to Title 5, section 55040. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
35080 Last Day to add: 06/21/19
WEL 06/17/19 07/25/19 08:00AM 10:10AM MTWTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: M Tongg
KIN-A81A
Physical Fitness, Beginning 1 UNIT
Prerequisite: None.
Description: This course is designed to give the student an overview of the basic concepts that affect total fitness. Personalized exercise programs in cardiovascular endurance, muscular strength, muscular endurance, and flexibility will be developed. KIN-A81A and A81B 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, or Pass/No Pass option.)
35081  Last Day to add: 06/21/19
WEL 06/17/19 07/25/19 01:30PM 03:40PM MTWTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: D Rea

KIN-A81B
Physical Fitness, Intermediate 1 UNIT
Prerequisite: None.
Description: Provides concepts for total fitness and develops personalized exercise programs for cardiovascular endurance, strength and flexibility.
35082  Last Day to add: 06/21/19
WEL 06/17/19 07/25/19 10:35AM 12:45PM MTWTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: D Rea

KIN-V78
Long Distance Running 1 UNIT
Prerequisite: None.
Limitation on enrollment: Retention based on successful tryout.
Description: This course will provide general and specific long distance running principles, conditioning methods, and race tactics involved in competitive long distance running. Subsequent enrollment in additional semesters will provide the student an opportunity for added skill and competency development. This course may be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
35083  Last Day to add: 06/21/19
LAB 06/17/19 07/25/19 08:00AM 09:10AM MTWTH SOCR1
The above section is a web-enhanced class. Internet access is required.
Instructor: L Jalayer

LIB-1
Introduction to Information Literacy 1 UNIT
Prerequisite: None.
Description: Presents the fundamentals of the effective use of libraries to find, evaluate, interpret, and organize information online and in print; and to answer research questions and develop new ones. Students will develop an understanding of access to and ethical use of information through the use of retrieval systems. 18 hours lecture. (Letter Grade, or Pass/No Pass option.)
35083  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: M Castro

MANAGEMENT
MAG-47
Applied Business, Management Ethics 3 UNITS
Prerequisite: None.
Description: An examination of ethical concerns including corporate, personal, global, environmental, public related issues ethics audits, and corporate social responsibility. (Same as BUS-47)
35084  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: D Dokter

MANUFACTURING TECHNOLOGY
MAN-55
Occupational Safety and Health Administration (OSHA) Standards for General Industry 2 UNITS
Prerequisite: None
Description: 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 or 30 hour general industry or construction industry training completion card. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)
35085  Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: K Mosley

MAN-69
Fundamentals of Tooling and Test Equipment 2 UNITS
Prerequisite: None.
Description: An introduction to the tools and equipment used in the facility maintenance occupation, with an emphasis on the safe use, maintenance, and storage of a variety of tools and equipment. Introduces hand and power tools, test equipment, and wiring practices.
35187  Last Day to add: 06/21/19
WE 06/17/19 07/24/19 08:00AM 09:15AM MTW ATEC119
06/17/19 07/24/19 09:30AM 10:45AM MTW ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: T Childers

### MATHEMATICS

#### MAT-1A
**Calculus I**
**4 UNITS**

**Prerequisite:** MAT-10 or MAT-23 or qualifying placement level.

Description: Functions, limits, continuity, techniques and applications of differentiation, the Fundamental Theorem of Calculus, and basic integration. 72 hours lecture and 18 hours laboratory. (Letter Grade or Pass/No Pass option)

35175  Last Day to add: 06/21/19  
WE  06/17/19  07/24/19 08:00AM 11.5AM MTW STEM302 
06/17/19  07/24/19 12:00PM 12:50PM MTW STEM302

The above section is a web-enhanced class. Internet access is required.  
**Instructor:** B Johnson

35174  Last Day to add: 06/21/19  
WE  06/17/19  07/24/19 12:00PM 03.5PM MTW ATEC210 
06/17/19  07/24/19 04:00PM 04:50PM MTW ATEC210

The above section is a web-enhanced class. Internet access is required.  
**Instructor:** A Robles

#### MAT-1B
**Calculus II**
**4 UNITS**

**Prerequisite:** MAT-1A

Description: Techniques of integration, applications of integration, improper integrals, parametric equations, polar coordinates, infinite sequences and series. 72 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

35176  Last Day to add: 06/21/19  
WE  06/17/19  07/24/19 08:00AM 11.5AM MTW WEQW6A 
06/17/19  07/24/19 12:00PM 12:50PM MTW WEQW6A

The above section is a web-enhanced class. Internet access is required.  
**Instructor:** J Mulari

#### MAT-5
**Calculus for Business and Life Science**
**4 UNITS**

**Prerequisite:** MAT-35

Description: A study of the techniques of calculus for majors in business, business administration, life and social sciences. Emphasis on problem solving and applications. Topics include: functions, graphs, limits, derivatives, integrals, exponential and logarithmic functions. 72 hours lecture. (Letter Grade or Pass/No Pass option.)

35093  Last Day to add: 06/21/19  
WE  06/17/19  07/25/19 11:00AM 01.5PM MTWTH WEQW5

The above section is a web-enhanced class. Internet access is required.  
**Instructor:** J Basinger
MAT-10
Precalculus  5 UNITS
Prerequisite: MAT-36 or qualifying placement level
Description: Preparation for calculus: Polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates, sequences, and series. Students cannot receive credit for MAT 10 if they have already received credit for MAT 23. 90 hours lecture. (Letter Grade or Pass/No Pass option)
35148  Last Day to add: 06/21/19
WE 06/17/19 07/25/19  10:20AM 01:55PM MTWTH  STEM201
The above section is a web-enhanced class. Internet access is required.
Instructor: E Hwang

MAT-11
College Algebra  4 UNITS
Prerequisite: MAT-35 or qualifying placement level
Description: This course is intended for students majoring in Liberal Arts and Humanities. The topics covered in this course include polynomial, radical, rational, absolute value, exponential and logarithmic functions; systems of equations; polynomial equations; permutations and combinations; analytic geometry; and linear programming. 72 hours lecture. (Letter Grade or Pass/No Pass option)
35087  Last Day to add: 06/21/19
WE 06/17/19 07/25/19  02:00PM 04:50PM MTWTH  ATEC204
The above section is a web-enhanced class. Internet access is required.
Instructor: J DeGuzman

MAT-12
Statistics  4 UNITS
Prerequisite: MAT-35 or MAT-37 or MAT-43 or qualifying placement level.
Description: A comprehensive study of measures of central tendency and variation, correlation and linear regression, probability, the normal distribution, the t-distribution, the chi-square distribution, estimation, testing of hypotheses, analysis of variance, and the application of statistical software to data, including the interpretation of the relevance of the statistical findings. Applications using data from business, education, health science, life science, psychology, and the social sciences will be included. 72 hours lecture. (Letter Grade, or Pass/No Pass option.)
35153  Last Day to add: 06/22/19
OL 06/17/19 07/25/19
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. In addition to the online lecture students are required to attend campus for proctored exams on the following dates: one day between 07/05 to 07/06 and another day between 07/26 and 07/27.
Instructor: B Johnson

MAT-35
Intermediate Algebra  5 UNITS
Prerequisite: MAT-52
Description: The concepts introduced in elementary algebra are presented again, but in greater depth. In addition to basic algebraic operations and graphing, students are introduced to functions, inverse functions, exponential and logarithmic functions, complex numbers, conic sections, nonlinear systems of equations, and sequences and series. 90 hours lecture. (Letter Grade or Pass/No Pass option)
35088  Last Day to add: 06/21/19
WE 06/17/19 07/25/19  08:00AM 11:35AM MTWTH  ATEC210
The above section is a web-enhanced class. Internet access is required.
Instructor: S Park
HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
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MUS-87
Applied Music Training
1 UNIT

Prerequisite: None

Description: Vocal or instrumental instruction for students who are proficient performers and could benefit from individualized instruction as determined by audition. Each student must complete 54 hours in a combination of individualized practice, lessons, concert attendance and individual performance. Not designed for beginning students. Course may be taken a total of four times. 54 hours laboratory.

35102 Last Day to add: 06/29/19
WEL 06/17/19 07/25/19 THTR204

The above section is a web-enhanced class and has a 54-hour laboratory requirement to be arranged. Internet access is required. This course offers private study in voice, piano, guitar, bass or drums. An audition is required. Students must either come to THTR 204 at 1pm on Monday, June 18th or must contact the instructor to schedule an audition. 3 hours of lessons and 2 hours of required performance times are to be arranged with your instructor. In addition, students are required to practice in the Norco music practice facilities for a minimum of 6.5 hours each week. For additional information, please contact the instructor; Kim.Kamerin@norcocollege.edu or 951-738-7703.

Instructor: K Kamerin

MUS-92
Basic Piano
0.50 UNITS

Prerequisite: None.

Description: Group piano lessons for beginners. Emphasis on simple melodies and basic chords using standard musical notation and lead sheets.

35103 Last Day to add: 06/22/19
LAB 06/18/19 07/25/19 10:30AM 12:10PM TWTH HUM101

The above section is a web-enhanced class. Internet access is required.

Instructor: K Kamerin

PHILOSOPHY

PHI-10
Introduction to Philosophy
3 UNITS

Prerequisite: None

Advisory: ENG-50 or ENG-80

Description: A survey and exploration of significant questions in the Western philosophical tradition. Questions are drawn from the various branches of philosophy: metaphysics, theory of knowledge, ethics, aesthetics, political philosophy and/or philosophy of religion. Students may not receive credit for both PHI-10 and PHI-10H. 54 hours lecture.

35104 Last Day to add: 06/22/19
HYB 06/18/19 07/25/19 08:00AM 10:10AM TTH ATEC204

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: L Montes

PHI-1
American Politics
3 UNITS

Prerequisite: None

Advisory: REA-83 and qualification for ENG-1A

Description: An introduction to United States and California government and politics, including their constitutions, political institutions and processes, and political actors. Examination of political behavior, political issues, and public policy. Students may not receive credit for both POL-1 and POL-1H. 54 hours lecture.

35107 Last Day to add: 06/22/19
OL 06/17/19 07/25/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: S Popiden

POL-4
Introduction to World Politics
3 UNITS

Prerequisite: None

Advisory: Qualification for ENG-1A and REA-83

Description: A study of the theories, paradigms, and issues of global politics. Special attention is given to the role of the United States in the international community, the role of international organizations and international political economy. 54 hours lecture.

35112 Last Day to add: 06/21/19
WE 06/17/19 07/24/19 06:00PM 08:50PM MTW ATEC204

The above section is a web-enhanced class. Internet access is required.

Instructor: J Buckner
PSYCHOLOGY

PSY-1

General Psychology  3 UNITS
Prerequisite: None.
Description: Survey of scientific study of behavior and mental processes, including learning, emotion, motivation, emotional problems and therapy.
35115  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: L Adams
35116  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: K Zamiska

PSY-2

Biological Psychology  3 UNITS
Prerequisite: PSY-1
Description: The scientific study of brain-behavior relationships and mental processes. Issues addressed include: historical scientific contributions and current research principles for studying brain-behavior associations and mental processes, basic nervous system structure and function, sensory and motor systems, emotion, motivation, learning and memory, sleep and dreaming, and neurological and mental disorders. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental investigations. 54 hours lecture.
35114  Last Day to add: 06/21/19
WE  06/17/19  07/25/19  08:00AM  10:10AM  MTWTH  IT109
The above section is a web-enhanced class. Internet access is required.
Instructor: L Adams
35113  Last Day to add: 06/21/19
WE  06/17/19  07/24/19  06:00PM  08:50PM  MTW  ATEC114
The above section is a web-enhanced class. Internet access is required.
Instructor: A Deane

PSY-9

Developmental Psychology  3 UNITS
Prerequisite: None.
Description: Examines the prevailing theories and research of developmental psychology and the stages of human development from conception to death.
35119  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: K Zamiska

REAL ESTATE

RLE-80

Real Estate Principles  3 UNITS
Prerequisite: None.
Description: Comprehensive analysis of basic laws, principles, terminology and current practices of California real estate.
35120  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: K Zamiska

RLE-81

Real Estate Practices  3 UNITS
Prerequisite: None
Description: Covers basic laws and principles of California real estate, terminology and daily operations in a real estate brokerage. Includes listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Applies toward state's educational requirements for the brokers examination. 54 hours lecture.
35121  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: N Hightower

RLE-82

Legal Aspects of Real Estate  3 UNITS
Prerequisite: None
Description: California real estate law, including rights incident to property ownership and management, agency, contracts, and application to real estate transfer, conveyance, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of brokers examination. 54 hours lecture.
35122  Last Day to add: 06/22/19
OL  06/17/19  07/25/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: J Hicks

Instructor: T Wagner

Get important textbook information, including ISBN numbers and pricing, and reserve for in-store pickup or delivery to your home! https://www.bkstr.com/norcocollegestore/
SOCIOLOGY

SOC-1
Introduction to Sociology 3 UNITS
Prerequisite: None
Advisory: ENG-50
Description: An introduction to the basic concepts relating to the study of society. The course includes investigation into the foundations of sociology including its overall perspective, theoretical orientations, and research methodology; the foundations of social life including the components of culture, social interaction and the process of socialization, groups, organizations, and deviance; economic social inequality based upon class, race, sex, and age; social institutions; and dimensions of social change. Students may not receive credit for both SOC-1 and 1H. 54 hours lecture.
35122  Last Day to add: 06/21/19
WE 06/17/19 07/25/19 08:00AM 10:10AM MTWTH HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: J Hill

SOC-2
American Social Problems 3 UNITS
Prerequisite: None
Description: Identification and analysis of major social problems confronting contemporary 20th century America; emphasizing, among other topics, urban and rural transformations, family life, minorities, criminal and delinquent behavior. 54 hours lecture.
35124  Last Day to add: 06/21/19
WE 06/17/19 07/24/19 06:15PM 09:05PM MTW IT101
The above section is a web-enhanced class. Internet access is required.
Instructor: J Hill

SPANISH

SPANISH PLACEMENT TESTING
The Spanish placement test measures competency levels for those who wish to enroll in Spanish courses but need to determine the appropriate starting level. The results show a recommendation of the appropriate Spanish class. Students can enroll in a level lower than their placement, but not higher. This placement test is intended for placement only, not for credit replacement. Once you have taken a Spanish class, you can no longer take the placement test. Placement tests are available by appointment only.

Please visit our online appointment system at: https://esars.rccd.edu/Norco/Assessment/index.htm
If you need to speak with someone directly, please call the Norco College Assessment Center (951) 372-7176

ENROLLMENT GUIDELINES

SPANISH
1. If you have taken Spanish in high school or in another college or university, you must have official transcripts on file and request evaluation of the course(s) in order to enroll above level 1.
2. If you have acquired knowledge of Spanish outside of a formal educational institution, you must file a matriculation appeals petition in order to enroll above level 1.

SPA-1
Spanish 1 5 UNITS
Prerequisite: None
Advisory: Completion of placement test to assess level of proficiency in Spanish.
Description: Develops basic skills in listening, reading, speaking and writing. Emphasis on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Spanish at the beginning level. Includes discussion of Hispanic culture and daily life. Students may receive credit for only one of the following: SPA-1 or SPA-1H. 90 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)
35125  Last Day to add: 06/21/19
HYB 06/17/19 07/24/19 02:00PM 05:30PM MW LIBR110
06/17/19 07/24/19 ONLINE
06/17/19 07/24/19 05:40PM 06:55PM MW LIBR110
The above section is a hybrid class. Computer with Internet access required.
Instructor: N Guillen
**SPA-2**  
**Spanish 2**  
5 UNITS

**Prerequisite:** SPA-1B or SPA-1 or SPA-1H, or qualifying placement level on the Spanish assessment test or the equivalent

**Description:** Further development of basic skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Spanish at the beginning level. This course includes an expanded discussion of Hispanic culture and daily life. Students may not receive credit for both SPA-2 and SPA-2H. 90 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)

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The above section is a hybrid class. Computer with Internet access required.  

**Instructor:** D Hitchcock

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**THEATER ARTS**

**THE-3**  
**Introduction to the Theater**  
3 UNITS

**Prerequisite:** None

**Description:** A comprehensive study of theatrical styles and forms with units in directing, acting, designing, technical theater, playwriting, and genres, to acquaint the student with the diverse nature of theater leading to an appreciation and understanding of theater as a separate and distinctive art form. 54 hours lecture.

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The above section is an online class. Computer with Internet access required.  

**Instructor:** W Stevens

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**WORK EXPERIENCE**

**WKX-200**  
**Work Experience**  
1 UNIT

**Prerequisite:** None

**Advisory:** Students should have paid or voluntary employment

**Description:** This course is designed to coordinate the students occupational on-the-job training with related instruction in work-related skills, including occupational and educational resources, career planning, resume development and interview techniques. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement; 60 hours of volunteer work or 75 hours of paid work in the semester are required for each unit. WKX-200 is an enrolling course for General Work Experience and Occupational Work Experience courses. Students enrolling in WKX-200 are administratively moved to the appropriate general or occupational work experience course after the first class meeting. Determination of the appropriate work experience course is made by the instructor, with input from the student, based upon several factors, including the number of hours worked during the semester, occupational program requirements, and type of work in which the student is engaged. 18 hours orientation and 60 hours of volunteer work experience (maximum of 240 hours) or 75 hours of paid work experience (maximum of 300 hours) are required for each enrolled unit.

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The above section is an online class. Computer with Internet access required. See www.opencampus.com. In addition to the online lecture, students are required to attend an orientation at Norco College the first week of the semester, dates and times will be posted in Canvas. Students must also meet on-campus for an instructor conference and for final exams. Please see Canvas for specific dates and times.

**Instructor:** A Etchison

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MISSION STATEMENT

Norco College serves our students, our community, and its workforce by providing educational opportunities, celebrating diversity, and promoting collaboration. We encourage an inclusive, innovative approach to learning and the creative application of emerging technologies. We provide foundational skills and pathways to transfer, career and technical education, certificates and degrees.

ACCOUNTING

ACC-1A
Principles of Accounting I 3 UNITS
Prerequisite: None
Advisory: BUS-20
Description: An introduction to accounting principles and practice, as a manual and/or computerized information system that provides and interprets economic data for economic units within a global society. Includes recording, analyzing, and summarizing procedures used in preparing financial statements. 54 hours lecture.

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<td>John F. Kennedy Middle College High School</td>
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</table>

Instructor: P Worsham

OL 08/26/19 12/14/19 Online Last Day to add: 09/06/19

The above section is an online class. Computer with Internet access required. See www.opencampus.com. In addition to the online lecture, students are required to come to campus for a proctored final exam. Your instructor will have additional details.

Instructor: D White

OL 10/21/19 12/14/19 Online Last Day to add: 10/29/19

The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

Instructor: D White

ACC-1B
Principles of Accounting II 3 UNITS
Prerequisite: ACC-1A
Description: A study of managerial accounting principles and information systems including basic concepts, limitations, tools and methods to support the internal decision-making functions of an organization. 54 hours lecture.

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<th>ABBR</th>
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<td>WEQ</td>
<td>West End Quad</td>
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</table>

Instructor: P Worsham

OL 08/26/19 12/14/19 Online Last Day to add: 09/01/19

The above section is a web-enhanced class. Internet access is required. See www.opencampus.com. In addition to the online lecture, students are required to come to campus for a proctored final exam. Your instructor will have additional details.

Instructor: D White

OL 08/26/19 12/14/19 Online Last Day to add: 09/06/19

The above section is an online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

Instructor: P Worsham

OL 08/26/19 12/14/19 Online Last Day to add: 10/29/19

The above section is a short term online class. Please note the start and end dates. Computer with Internet access required. See www.opencampus.com.
37839          Last Day to add: 10/29/19
OL  10/21/19  12/14/19  ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: P. Worsham
37009          Last Day to add: 09/06/19
HYB  10/21/19  12/14/19  09:40AM 11:05AM  TTH  ATEC114
10/21/19  12/14/19  ONLINE
The above section is a short term hybrid class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: P. Worsham

37960          Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: S Williams

37941          Last Day to add: 09/06/19
WE  08/26/19  12/14/19  03:00PM  04:25PM  MW  HM126
The above section is restricted to Norco High School students participating in Norco College’s Dual Enrollment Program.
Instructor: Staff

ACC-65
Computerized Accounting   3 UNITS
Prerequisite: ACC-1A or ACC-55
Advisory: CIS-1A or CIS-3
Description: An introduction to computerized accounting, integrating the principles of accounting to an automated system in use by many accounting professionals. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
37012          Last Day to add: 09/06/19
HYB  10/21/19  12/14/19  08:00AM 09:25AM  TTH  CACT2
10/21/19  12/14/19  ONLINE
The above section is a short term hybrid class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: N Ildefonso

ACC-67
U.S. and California Income Tax Preparation   4 UNITS
Prerequisite: None
Description: U.S. and California income tax principles and tax return preparation as it relates to individuals, sole proprietors, and other business entities. This course is certified by the California Tax Education Council (CTEC) as fulfilling the 60-hour qualifying education requirement imposed by the State of California for becoming a Registered Tax Preparer. 72 hours lecture.
37013          Last Day to add: 09/01/19
HYB  08/26/19  10/19/19  05:30PM 09:45PM  W  JFK118
08/26/19  10/19/19  ONLINE
The above section is a short term hybrid class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: J Muir

ADMINISTRATION OF JUSTICE

ADJ-1
Introduction to the Administration of Justice. Same As Jus-1   3 UNITS
Prerequisite: None
Description: The history and philosophy of administration of justice in America; recapitulation of the system; identifying the various subsystems, role expectations, and their interrelationships; theories of crime, punishment, and rehabilitation; ethics, education, and training for professionalism in the system. 54 hours lecture.
37960          Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: S Williams
37014          Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:30PM  03:55PM  MW  IT202
The above section is a web-enhanced class. Internet access is required.
Instructor: S Williams
ADJ-2

Principles and Procedures of the Justice System

Prerequisite: None
Description: An examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional precedents. 54 hours lecture.

ADJ-3

Concepts of Criminal Law

Prerequisite: None
Description: Historical development, philosophy of law and constitutional provisions; definitions, classification of crimes, and their application to the system of administration of justice; legal research, study of case law, methodology, and concepts of law as a social force. 54 hours lecture.

ADJ-6

Patrol Procedures

Prerequisite: None
Description: Responsibilities, techniques and methods of police patrol. 54 hours lecture.

ADJ-8

Juvenile Law and Procedures

Prerequisite: None
Description: The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. 54 hours lecture.

ANT-1

Physical Anthropology

Prerequisite: None
Description: An introduction to human biological evolution, physical diversity, and relationship to the animal world, using scientific and comparative methods. Incorporates the study of genetics, fossils, primates, and modern human variation within an evolutionary framework. Students may not receive credit for both ANT-1 and ANT-1H. 54 hours lecture.

ANTHROPOLOGY

ANT-3

Primate Behavior

Prerequisite: ANT-1
Description: An introduction to human biological evolution, physical diversity, and relationship to the animal world, using scientific and comparative methods. Incorporates the study of genetics, fossils, primates, and modern human variation within an evolutionary framework. Students may not receive credit for both ANT-1 and ANT-1H. 54 hours lecture.

ANT-4

Historical and Islamic Anthropology

Prerequisite: None
Description: An introduction to the study of human cultural diversity and historical and Islamic anthropological perspectives. 54 hours lecture.

ANT-5

Cross-Cultural Health and Disease

Prerequisite: None
Description: An introduction to the study of human health and disease in cross-cultural perspectives. 54 hours lecture.

ANT-6

Women's Anthropology

Prerequisite: None
Description: An introduction to the study of anthropological perspectives on women's rights and gender issues. 54 hours lecture.

ANT-7

Children's Anthropology

Prerequisite: None
Description: An introduction to the study of anthropological perspectives on children's rights and welfare. 54 hours lecture.

ANT-8

Sociocultural Anthropology

Prerequisite: None
Description: An introduction to the study of anthropological perspectives on sociocultural issues. 54 hours lecture.
37023  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  11:10AM  F  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: P Roberts

37963  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:15AM  12:40PM  TTH  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37835  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  02:30PM  03:55PM  T  HUM111
08/26/19  12/14/19  ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: C Buchanan

37024  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  02:30PM  03:55PM  TH  HUM111
08/26/19  12/14/19  ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: C Buchanan

37022  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  M  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

ANT-1H

Honors Physical Anthropology  3 UNITS
Prerequisite: None.
Limitation on enrollment: Enrollment in the RCCD Honors Program
Description: This honors course offers an enriched introduction to human biological evolution, physical diversity, and relationship to the animal world, using scientific and comparative methods. Incorporates the study of genetics, fossils, primates, and modern human variation within an evolutionary framework. Students may not receive credit for both ANT 1 and ANT 1H. 54 hours lecture.
37840  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:05AM  TTH  IT208
The above section is a web-enhanced class. Internet access is required.
Instructor: A Gray

ANT-1L

Physical Anthropology Laboratory  1 UNITS
Prerequisite: Concurrent enrollment in or prior completion of ANT-1 or 1H required.
Description: Laboratory course exploring case studies and problems of human genetics, human variation, the identification of fossils through examination of fossil casts, human evolution, the study of the human skeleton, observation of primate behavior and structures utilizing the scientific method. 54 hours laboratory.
37025  Last Day to add: 09/06/19
WEL  08/26/19  12/14/19  09:15AM  10:40AM  MW  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37026  Last Day to add: 09/06/19
WEL  08/26/19  12/14/19  04:10PM  05:35PM  MW  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

ANT-2

Cultural Anthropology  3 UNITS
Prerequisite: None.
Description: An introduction to the anthropological concept of culture and to the methods and theories used in the comparative analysis of cultures. Cultural practices and institutions are examined using perspectives that enhance effective participation in a culturally diverse world. 54 hours lecture.
37027  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: A Gray

37031  Last Day to add: 10/29/19
OL  10/21/19  12/14/19  ONLINE
The above section is a short term online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: C Buchanan

37838  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: A Gray

37029  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:05AM  TTH  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37028  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:10AM  12:35PM  MW  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: C Buchanan

37030  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:10PM  05:35PM  TTH  HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: A Mejia

37837  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  06:00PM  07:25PM  T  HUM111
08/26/19  12/14/19  ONLINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: A Mejia
ANT-5
Cultures of Ancient Mexico 3 UNITS
Prerequisite: None
Description: The development of civilization in ancient Mexico, integrating evidence from archaeology and the prehispanic and post-Conquest written records. Emphasizes the history, lifeways, and social and religious institutions of Mexico from the earliest cultures to the Aztec civilization, and their persistence in the modern world. 54 hours lecture. 37964 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM W HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: C Goralski

ANT-6
Introduction to Archaeology 3 UNITS
Prerequisite: None
Description: An examination of the basic concepts, methods, and findings of modern archaeology. Covers the history of archaeology, the application of archaeological methods of recovery and interpretation, and the analysis of archaeological evidence as it is used to reconstruct ancient societies and major trends in cultural evolution. 54 hours lecture. 37033 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM 03:55PM MW HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: C Buchanan

ANT-7
Anthropology of Religion 3 UNITS
Prerequisite: None
Description: Introduction to the anthropological study of religion in world cultures, using a cross-cultural approach to the analysis of beliefs, rituals, mythology, and the role of religion in society, particularly focusing on non-Western traditional societies. 54 hours lecture. 37034 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:10PM MW HUM111
The above section is a web-enhanced class. Internet access is required.
Instructor: C Buchanan

ART

ART-1
History of Western Art: Prehistoric, Ancient, and Medieval 3 UNITS
Prerequisite: None
Advisory: ENG-1A
Description: Survey of the history of Western art: painting, architecture, and sculpture, Prehistoric through the Medieval periods. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
37038 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM W WEQW7
The above section is a web-enhanced class. Internet access is required.
Instructor: A Nindra

ART-2
History of Western Art: Renaissance Thro through Contemporary 3 UNITS
Prerequisite: None
Advisory: Qualification for ENG-1A
Description: Survey of the history of Western art: Painting, architecture, and sculpture, from the Renaissance through contemporary art. Student may not receive credit for both ART-2 and ART-2H. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
37042 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com.
Instructor: M Eastridge
### ART-2H
**Honors Art History of Western Art:**
Renaissance through Contemporary 3 UNITS

**Prerequisite:** None.

**Advisory:** ENG-1A

**Limitation on enrollment:** Enrollment in the Honors Program

Description: Honors survey of the history of Western art: painting, architecture, and sculpture, from the Renaissance through Contemporary art. Students may not receive credit for both ART-2 and ART-2H. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

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</table>

See www.opencampus.com. Please note the start and end dates.

The above section is a short term online class. Computer with Internet access required.

**Instructor:** Staff

### ART-6
**Art Appreciation**
3 UNITS

**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. (Letter Grade, or Pass/No Pass option.)

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</table>

See www.opencampus.com. Please note the start and end dates.

The above section is a web-enhanced class. Internet access is required.

**Instructor:** K Skiba

### ART-17
**Beginning Drawing**
3 UNITS

**Prerequisite:** None

Description: An introduction to the fundamentals of drawing in a variety of media. The exploration of the elements of art, the principles of composition, perspective and the development of observational, motor and creative skills. Emphasis will be on black and white media. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

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The above section is a web-enhanced class. Internet access is required.

**Instructor:** Q Bemiller

### ART-20
**Beginning Sculpture**
3 UNITS

**Prerequisite:** None

Description: An introduction to the fundamentals of sculpture design and creation. A variety of materials, such as clay, wax and plaster, will be used. Additive, subtractive and construction methods for creating the sculptural pieces will be explored, as well as other traditional and contemporary forms and techniques. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)(Materials fee: $15.00)

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The above section is a web-enhanced class. Internet access is required.

**Instructor:** M Lindeman
**ART-22**  
**Basic Design**  
3 UNITS  
**Prerequisite:** None  
Description: An introduction to the fundamentals of two-dimensional design. The organization of visual elements according to the principles of design. Emphasis placed on visual perception, theory, dexterity, problem solving, analysis, application, skill, and presentation. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: M Lindeman

**ART-24**  
**Three Dimensional Design**  
3 UNITS  
**Prerequisite:** None  
Description: An introduction to the fundamentals of three-dimensional design. The use of the visual elements and the practice of the principles of design as they relate to various three-dimensional art forms (i.e., sculpture, architecture and product, commercial, stage, environmental, and interior design). Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Materials fee: $15.00

Instructor: D Campuzano

**ART-26**  
**Beginning Painting**  
3 UNITS  
**Prerequisite:** ART-17  
Description: An introduction to the fundamentals of painting (oil or acrylic). An exploration of various considerations in painting; techniques, process, color theory, visual perception, composition, and creative skills. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: M Lindeman

**ART-27**  
**Intermediate Painting**  
3 UNITS  
**Prerequisite:** ART-23 or ART-26  
Description: Intermediate level of painting (oil or acrylic). Continued exploration of various techniques and the application of color theory. Development of visual, compositional, and creative skills. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: M Lindeman

**ART-28**  
**Studio Painting-Portfolio Preparation**  
3 UNITS  
**Prerequisite:** ART-27  
Description: Independent painting studio for the self-motivated student with emphasis on individual art problems and portfolio development. Specific agreement identifying intent, ideas, goals, and media, to be arranged between instructor and student. Emphasis will be on independent concept, development, and portfolio preparation. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: M Lindeman

**ART-36**  
**Computer Art-Introduction**  
3 UNITS  
**Prerequisite:** None  
Description: Introduction to creating fine art and design using digital media. The exploration of the visual characteristics of electronic imagery with emphasis on the essentials of fine art, design, and creative problem solving. Artwork will be developed using the computer, related software, and/or other electronic equipment. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: B May
ART-40A
Figure Drawing-Introduction  3 UNITS
Prerequisite: ART-17
Description: Introduction to drawing the human figure. Students will draw from a nude model using a variety of media. Students pay for their own materials. 36 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option).
37049  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM 10:40AM  F  ATEC209
08/26/19  12/14/19  10:40AM 03:55PM  F  ATEC209
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

ART-40B
Figure Drawing-Intermediate  3 UNITS
Prerequisite: ART-40A
Description: Intermediate level of drawing the human figure where emphasis will be on more developed and accurate figurative work, anatomy, improved composition, and further creative exploration. Students will draw from a nude model using a variety of media. Students pay for their own materials. 36 hours lecture and 72 hours laboratory (Letter Grade, or Pass/No Pass option).
37050  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM 10:40AM  F  ATEC209
08/26/19  12/14/19  10:40AM 03:55PM  F  ATEC209
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

ART-41A
Figure Painting-Introduction  3 UNITS
Prerequisite: None.
Introduction to painting the figure from a nude model. A variety of methods and materials will be introduced. Prerequisite: ART-26 or 40A.
38023  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM 10:40AM  F  ATEC209
08/26/19  12/14/19  10:40AM 03:55PM  F  ATEC209
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

BIOLOGY
BIO-1
General Biology  4 UNITS
Prerequisite: None.
Description: Introductory course designed for non-science majors that offers an integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussions on the philosophy, concepts, and implications of modern biology will be included. Students may not receive credit for both BIO-1 and BIO-1H. 54 hours lecture and 54 hours laboratory. (Letter Grade only)
37056  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM 09:25AM  TTH  IT117
08/26/19  12/14/19  09:40AM 12:50PM  TH  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: T Friedrich Finnern

37058  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM 09:25AM  TTH  IT117
08/26/19  12/14/19  09:40AM 12:50PM  T  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: T Friedrich Finnern

37059  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:15AM 12:40PM  TTH  IT117
08/26/19  12/14/19  02:00PM 05:10PM  TH  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37063  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:30PM 03:55PM  MW  IT117
08/26/19  12/14/19  06:00PM 09:10PM  W  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: O Kim

37066  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:10PM 05:35PM  MW  IT117
08/26/19  12/14/19  12:45PM 03:55PM  M  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: F Almasarweh

37069  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:10PM 05:35PM  MW  IT117
08/26/19  12/14/19  02:00PM 05:10PM  F  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: F Almasarweh

37070  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM 05:40PM  TTH  IT117
08/26/19  12/14/19  06:00PM 09:10PM  T  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: J Julius A Suriano

37071  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM 05:40PM  TTH  IT117
08/26/19  12/14/19  06:00PM 09:10PM  TH  IT128
The above section is a web-enhanced class. Internet access is required.
Instructor: J Julius A Suriano
### BIO-5
**General Botany**  
**4 UNITS**

**Prerequisite:** None

Description: Introduction to the plant sciences with principal emphasis on the structures, functions and ecology of common members of each of the major plant divisions. Designed for nonmajors and majors in health science, forestry, agriculture, environmental science, landscape design, horticulture and general nature studies. 54 hours lecture and 54 hours laboratory.

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<th>Section</th>
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<th>Start Time</th>
<th>End Time</th>
<th>Instructor</th>
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The above section is a web-enhanced class. Internet access is required.

**Instructor:** T Friedrich Finnern

### BIO-18
**Human Genetics (formerly Bio-34)**  
**3 UNITS**

**Prerequisite:** None

Advisory: High school biology or any college life science course with laboratory.

Description: A general education course for non-biology majors and allied health students who are interested in the underlying mechanisms of human heredity. Emphasis will be given to the role of genetics and environment on cells, individuals, family and human populations. Discussion on human genetic disorders and the social implications of modern human genetics will be included. 54 hours lecture.

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</table>

The above section is a web-enhanced class. Internet access is required.

**Instructor:** R Joseph

### BIO-19
**Environmental Science (formerly Bio-36)**  
**3 UNITS**

**Prerequisite:** None

Description: A study of humans in relation to the environment that emphasizes population ecology, nutrient cycles and energy flow, pollution, food production, and conservation of natural resources. 54 hours lecture.

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The above section is a web-enhanced class. Internet access is required.

**Instructor:** J Drainville

### BIO-45
**Survey of Human Anatomy and Physiology (formerly Amy-10)**  
**3 UNITS**

**Prerequisite:** None

Description: An introductory and survey course of structural and functional aspects of the human body. Emphasis is placed on cell organization, human tissues, and discussion of each of the human systems. 54 hours lecture.

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The above section is a web-enhanced class. Internet access is required.

**Instructor:** G Johansen

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### BIO-50A
**Anatomy and Physiology I (formerly Amy-2a)**  
**4 UNITS**

**Prerequisite:** BIO-1 or BIO-1H or BIO-4 or BIO-55 or BIO-60 or BIO-60H

Description: First of a two course sequence that introduces students to the basic concepts and principles of anatomy and physiology. This course will provide a foundation for advanced study of the human body. The course covers body orientation and organization, cells and tissues, the skeletal and muscular systems, and the eye and ear. Designed to meet the prerequisites for professional programs, e.g. nursing, dental hygiene, and physical therapy. 36 hours lecture and 108 hours laboratory.

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The above section is a web-enhanced class. Internet access is required.

**Instructor:** P Campo

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Norco College  
RIVERSIDE COMMUNITY COLLEGE DISTRICT
BIO-50B
Anatomy and Physiology II (formerly Amy-2b) 4 UNITS
Prerequisite: BIO-50A
Description: First of a two course sequence that introduces students to the basic concepts and principles of anatomy and physiology. This course will provide a foundation for advanced study of the human body. The course covers body orientation and organization, cells and tissues, the skeletal and muscular systems, and the eye and ear. Designed to meet the prerequisites for professional programs, e.g. nursing, dental hygiene, and physical therapy. 36 hours lecture and 108 hours laboratory.

Instructor: I McGuire
37074 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:00PM 12:50PM T ST207
08/26/19 12/14/19 12:00PM 01:05PM T ST207
08/26/19 12/14/19 01:15PM 04:25PM TTH ST207

The above section is a web-enhanced class. Internet access is required.

Instructor: C Sternburg
37847 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 02:50PM TH ST211
08/26/19 12/14/19 02:00PM 03:05PM T ST211
08/26/19 12/14/19 09:30AM 12:40PM TTH ST211

The above section is a web-enhanced class. Internet access is required.

Instructor: W Whalen
37075 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:15PM 06:05PM TH ST207
08/26/19 12/14/19 05:15PM 06:20PM TH ST207
08/26/19 12/14/19 06:30PM 09:40PM TTH ST207

The above section is a web-enhanced class. Internet access is required.

Instructor: A Hoffman
37079 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:40AM MW IT117
08/26/19 12/14/19 11:00AM 02:10PM M ST203

The above section is a web-enhanced class. Internet access is required.

Instructor: M Gutierrez
37076 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 07:25PM MW IT117
08/26/19 12/14/19 07:35PM 09:00PM MW ST203

The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore
37077 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 07:25PM MW IT117
08/26/19 12/14/19 04:15PM 05:40PM MW ST203

The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore

BIO-55
Microbiology (formerly Mic-1) 4 UNITS
Prerequisite: CHE-2A or CHE-2B, 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.

Instructor: M Gutierrez
37078 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:40AM MW IT117
08/26/19 12/14/19 11:00AM 02:10PM M ST203

The above section is a web-enhanced class. Internet access is required.

Instructor: J Drainville
37081 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 06:20PM TTH WEQW7
08/26/19 12/14/19 02:10PM 05:20PM W IT128

The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore

BIO-60
Introduction to Molecular and Cellular Biology (formerly Bio-11) 5 UNITS
Prerequisite: CHE-1A or CHE-1AH
Advisory: MAT-35, ENG-50, ENG-80or qualifying placement level
Description: An intensive course for all Life Science majors designed to prepare the student for upper division courses in molecular biology, cell biology, developmental biology, evolution, and genetics. Course material includes principles of biochemistry, prokaryotic and eukaryotic cell structure and function, metabolism including photosynthesis and respiration, cell division and its control, classical and molecular genetics, signal transduction, early animal development, evolution and the diversity of life at the cellular level. 72 hours lecture and 54 hours laboratory.

Instructor: B Moore
37076 Last Day to add: 09/06/19
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The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore
37077 Last Day to add: 09/06/19
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The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore

BIO-61
Introduction to Organismal and Population Biology (formerly Bio-12) 5 UNITS
Prerequisite: BIO-60 or BIO-60H
Description: An intensive course designed for all Life Science majors to prepare the student for upper division courses in organismal and population biology. Course materials include plant structure and function, animal systems and behavior, ecological diversity and dynamics, and evolutionary theory, including population genetics. This course along with Biology 11 is intended to fulfill a year of transferable lower division general biology. Some field trips are required. 72 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: B Moore
37081 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 10:30AM 12:35PM TTH ST203
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The above section is a web-enhanced class. Internet access is required.

Instructor: B Moore
## BUSINESS ADMINISTRATION

### BUS-3
**Computer Applications for Business**

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Prerequisite: None

Description: This course introduces a suite of computer applications to students preparing to enter business, and office professions. Individuals who are already established in these professions may also benefit from skills emphasized which include: use of basic operating system functions, file management, word processing, spreadsheets, database management, and presentation graphics. 54 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)

Instructor: G Zwart

### BUS-10
**Introduction to Business**

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<thead>
<tr>
<th>Code</th>
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Prerequisite: None.

Description: Scope, function and organization of contemporary business; fundamentals, concepts, principles, and current practices in the major areas of business activity with an integrated global perspective. 54 hours lecture. (Letter Grade only)

Instructor: C McConnell-Freeman

### BUS-13
**Developing a Successful Business Plan/Model**

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Prerequisite: None.

Description: This course provides a systematic process for developing a business plan or model. It establishes a clear road map for clarifying a vision for a business and the strategic, tactical, and operational plans and/or model to move ideas into action. Students further along in the planning and research process will work through the major components of writing a business plan and/or model and emerge with a completed draft of a business plan/model. 36 hours lecture.

Instructor: Staff

### BUS-12
**Opportunity Analysis for Entrepreneurs**

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</table>

Prerequisite: None.

Description: This course examines the entrepreneur’s role in the global economy as an exploiter of opportunities. Topics include the creative search for ideas, the innovation process, and the opportunity analysis to screen for the best ideas. Learning activities cover the decisions needed to transform an idea into a business opportunity. 36 hours lecture.

Instructor: Staff

### BUS-18A
**Business Law I**

<table>
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<tr>
<th>Code</th>
<th>Start Date</th>
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</table>

Prerequisite: None.

Description: The social and practical basis of the law. Covers the legal and ethical environment of business, contracts, agency and employment, and the law of sales. 54 hours lecture.

Instructor: Staff

Get important textbook information, including ISBN numbers and pricing, and reserve for in-store pickup or delivery to your home! [https://www.bkstr.com/norcocollegestore/](https://www.bkstr.com/norcocollegestore/)
BUS-18B
Business Law II  3 UNITS
Prerequisite: None
Description: Commercial paper, secured transactions, bankruptcy, agency and employment, business organizations, governmental regulations, international law, real and personal property and trusts and estates. 54 hours lecture.

Instructor: T Wagner

BUS-24
Business Communication  3 UNITS
Prerequisite: ENG-1A or ENG-1AH
Description: Applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing and revising business documents using word processing software for written documents and presentation graphics software to create and deliver professional-level oral reports. Course is designed for students who have college-level writing skills. 54 hours lecture.

Instructor: T Wagner
BUS-30  
Entrepreneurship: Foundations and Fundamentals  
Prerequisite: None  
Description: An introductory course designed to explore, identify and evaluate business opportunities with an emphasis on starting and managing a small or existing business: investigating tools and best practices associated with identifying and creating new venture opportunities; explore ways to shape and evaluate the viability of opportunities; understanding key industry factors, market, competitive factors, and customer needs.  
Instructor: Staff  
OL 08/26/19 12/14/19 ONLINE
Last Day to add: 09/06/19
The above section is an online class. Computer with Internet access required. See www.opencampus.com.

BUS-80  
Principles of Logistics  
Prerequisite: None  
Description: An introduction to the management of business logistics functions including purchasing, inventory management, transportation, warehousing and their related technologies. Focus is on integration of logistics functions to improve overall supply chain customer service and cost performance. 54 hours lecture.  
Instructor: R Beck
OL 08/26/19 12/14/19 ONLINE
Last Day to add: 09/06/19
The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

BUS-82  
Freight Claims  
Prerequisite: None  
Description: A study of loss avoidance and mitigation in transit and of the preparation, filing, and resolution. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)  
Instructor: R Beck
OL 08/26/19 12/14/19 06:00PM 07:25PM T IT109
OL 08/26/19 12/14/19 ONLINE
The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

BUS-83  
Contracts  
Prerequisite: None  
Description: A study of the legal and regulatory requirements applicable to contracts for product transportation and logistics functions and considerations for drafting and negotiating contracts with freight carriers, warehouses and other logistics service providers. 27 hours lecture. (Letter Grade, or Pass/No Pass option.)  
Instructor: R Beck
OL 08/26/19 10/19/19 ONLINE
The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

BUS-47  
Applied Business and Management Ethics  
Prerequisite: None  
Description: An examination of ethical concerns in business decision making. Includes corporate, personal, global, governmental, public, environmental, product, and job-related issues. Case studies and corporate ethics programs and audits also covered. 54 hours lecture. (Letter Grade, or Pass/No Pass option)  
Instructor: Staff
OL 08/26/19 12/14/19 ONLINE
Last Day to add: 09/06/19
The above section is an online class. Computer with Internet access required. See www.opencampus.com.

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

Get important textbook information, including ISBN numbers and pricing, and reserve for in-store pickup or delivery to your home! https://www.bkstr.com/norcocollegestore/
BUS-86
Transportation and Traffic Management 3 UNITS
**Prerequisite:** None
Description: A study of the freight transportation system including the demand for freight movement, laws, regulations, pricing, and policies, traffic management and international transportation issues. Focuses on how transportation collaborates with other supply chain functions to optimize cost and customer service. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

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</table>

See www.opencampus.com. Please note the start and end dates.

**Instructor:** Staff

BUS-87
Purchasing and Supply Management 3 UNITS
**Prerequisite:** None
Description: Study of the purchasing and supply manager’s responsibilities including the identification, acquisition, positioning and management of materials, services and equipment that organizations needs to attain their goals. Emphasis is on decision making, integration with suppliers, critical internal relationships, and customer (end user) service. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

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</table>

See www.opencampus.com. Please note the start and end dates.

**Instructor:** T Wagner

BUS-90
International Logistics 3 UNITS
**Prerequisite:** None
Description: An introduction to the role of logistics in global business; including the economic and service characteristics of international transportation providers, the government's role, documentation and terms of sale used in global business, and the fundamentals of effective export and import management. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

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The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

**Instructor:** T Wagner

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**Computer Applications/Office**

**CAT-3**
Computer Applications for Business 3 UNITS
**Prerequisite:** None
Description: This course introduces a suite of computer applications to students preparing to enter business, and office professions. Individuals who are already established in these professions may also benefit from skills emphasized which include: use of basic operating system functions, file management, word processing, spreadsheets, database management, and presentation graphics. 54 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)

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The above section is a short term hybrid class. Computer with Internet access required. See www.opencampus.com. Designated laboratory hours are to be completed online. Please note the start and end dates.

**Instructor:** C McConnell-Freeman

**CAT-80**
Word Processing: Microsoft Word for Windows 3 UNITS
**Prerequisite:** None
Advisory: Typing knowledge/skills with at least 40 wpm
Description: This course provides introductory, intermediate, and advanced skill levels necessary to produce a variety of professional documents using Microsoft Word word processing program. Students will develop skills in word processing techniques and tasks. 54 hours lecture and 18 hours laboratory. (TBA Option)

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The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, will be completed online.

**Instructor:** C McConnell-Freeman

**CAT-93**
Computers for Beginners 3 UNITS
**Prerequisite:** None
Description: This course is designed as a practical step-by-step introduction to computer literacy topics including computer hardware and software, application skills, the Internet and Internet searching, Web page creation and computer ethics. 54 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

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</table>

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

**Instructor:** Staff

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HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab • WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

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CHEMISTRY

CHE-1A

General Chemistry, I

Prerequisite: CHE-2A or CHE-3 and MAT-35

Description: The student will explore simple chemical systems, their properties and how they can be investigated and understood in terms of stoichiometry, gas laws, elementary thermodynamics, atomic structure and bonding. Laboratory techniques in the investigation of chemical systems. Students may not receive credit for both CHE-1A and CHE-1AH. 54 hours lecture and 108 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: A Efron

37844 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:30AM 10:40AM MW LIBR121
08/26/19 12/14/19 11:00AM 02:10PM MW HUM208

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37125 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:10PM 05:35PM TTH ATEC210
08/26/19 12/14/19 06:30PM 09:40PM MW HUM208

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37123 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 07:25PM TTH JFK102
08/26/19 12/14/19 02:40PM 05:50PM MW HUM208

The above section is a web-enhanced class. Internet access is required.

Instructor: Z Zhu

CHE-1B

General Chemistry, II

Prerequisite: CHE-1A or CHE-1AH

Description: Continued exploration of the principles of chemistry with emphasis on kinetics, thermodynamics, acid-base theory, equilibrium and electrochemistry. Special topics from descriptive inorganic chemistry, nuclear chemistry and introductory organic chemistry. Laboratory techniques in the investigation of chemical systems. Students may not receive credit for both CHE-1B and CHE-1BH. 54 hours lecture and 108 hours laboratory. (Letter Grade, or Pass/No Pass option.)

37126 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH IT101
08/26/19 12/14/19 02:00PM 05:10PM TTH HUM208

The above section is a web-enhanced class. Internet access is required.

Instructor: J Tyler

37127 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:35PM 09:00PM MW IT117
08/26/19 12/14/19 06:30PM 09:40PM TTH HUM208

The above section is a web-enhanced class. Internet access is required.

Instructor: C Lugo

CHE-2A

Introductory Chemistry, I

Prerequisite: MAT-52

Description: Introduction to the nature of chemicals, their properties, chemical bonding, reactions, and mixtures. Applications to health and environmental topics. Fulfills the needs of non-science majors. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: Staff

37132 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT117
08/26/19 12/14/19 09:15AM 12:25PM F HUM204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37133 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT117
08/26/19 12/14/19 01:00PM 04:10PM F HUM204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37129 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH THTR101
08/26/19 12/14/19 02:00PM 05:10PM TH HUM204

The above section is a web-enhanced class. Internet access is required.

Instructor: A Duggal

37136 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH THTR101
08/26/19 12/14/19 02:00PM 05:10PM T HUM204

The above section is a web-enhanced class. Internet access is required.

Instructor: A Duggal

37130 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:10PM MW STEM201
08/26/19 12/14/19 09:00AM 12:10PM W HUM204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

1.5 UNITS

1.5 UNITS

5 UNITS

4 UNITS
The above section is a web-enhanced class. Internet access is required.

**CHE-12A**

**Organic Chemistry I**

**Prerequisite:** CHE-1B or CHE-1BH

Description: A discussion of aliphatic hydrocarbons that focuses on their structure, reactivity, methods of synthesis, physical properties, and reaction mechanisms. Laboratory work emphasizes techniques used to identify, separate, and purify substances. 54 hours lecture and 108 hours laboratory. (Letter Grade, or Pass/No Pass option.)

**Instructor:** V Lee

**37131**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 12:45PM 02:10PM MW STEM201

WE 08/26/19 12/14/19 02:30PM 05:40PM W HUM204

The above section is a web-enhanced class. Internet access is required.

**37134**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:10PM 03:35PM TTH ATEC114

WE 08/26/19 12/14/19 09:30AM 12:40PM T HUM204

The above section is a web-enhanced class. Internet access is required.

**37135**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:00PM 04:15PM F HUM204

WE 08/26/19 12/14/19 11:00AM 12:25PM MW STEM301

WE 08/26/19 12/14/19 09:45AM 04:15PM F HUM208

The above section is a web-enhanced class. Internet access is required.

**37128**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 06:00PM 09:10PM T IT117

WE 08/26/19 12/14/19 09:00PM 09:10PM TH HUM204

The above section is a web-enhanced class. Internet access is required.

**37137**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 11:00AM 12:25PM MW STEM301

WE 08/26/19 12/14/19 09:45AM 04:15PM F HUM208

The above section is a web-enhanced class. Internet access is required.

**37122**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:00PM 03:25PM TTH STEM301

WE 08/26/19 12/14/19 09:30AM 12:40PM T HUM208

The above section is a web-enhanced class. Internet access is required.

**CHE-12B**

**Organic Chemistry, II**

**Prerequisite:** CHE-12A

Description: Continues discussion based on the content of CHE12A. Develops a detailed study of nucleophilic and elimination reactions from a mechanistic viewpoint. Aliphatic and aromatic chemistry will be fully integrated throughout CHE-12B. Considerable emphasis on synthesis. Laboratory includes techniques of syntheses, separation, and identification of several compounds, and an introduction to qualitative organic analysis. 54 hours lecture and 108 hours laboratory. (Letter Grade, or Pass/No Pass option.)

**Instructor:** S Tyler

**37131**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 12:45PM 02:10PM MW STEM201

WE 08/26/19 12/14/19 02:30PM 05:40PM W HUM204

The above section is a web-enhanced class. Internet access is required.

**37134**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:10PM 03:35PM TTH ATEC114

WE 08/26/19 12/14/19 09:30AM 12:40PM T HUM204

The above section is a web-enhanced class. Internet access is required.

**37135**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:00PM 04:15PM F HUM204

WE 08/26/19 12/14/19 11:00AM 12:25PM MW STEM301

WE 08/26/19 12/14/19 09:45AM 04:15PM F HUM208

The above section is a web-enhanced class. Internet access is required.

**37128**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 06:00PM 09:10PM T IT117

WE 08/26/19 12/14/19 09:00PM 09:10PM TH HUM204

The above section is a web-enhanced class. Internet access is required.

**37137**  
Last Day to add: 09/06/19

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WE 08/26/19 12/14/19 09:00PM 09:10PM W HUM204

The above section is a web-enhanced class. Internet access is required.

**CHINESE**

**CHI-1**

**Chinese 1**

**Prerequisite:** None.

Description: Develops basic skills in listening, reading, speaking and writing. Emphasis on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Mandarin Chinese at the beginning level. Includes discussion of Chinese culture and daily life. 90 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

**37985**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 02:00PM 05:00PM T LIBR110

WE 08/26/19 12/14/19 02:00PM 04:05PM TH LIBR110

WE 08/26/19 12/14/19 04:10PM 05:00PM TH LIBR110

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

**37986**  
Last Day to add: 09/06/19

WE 08/26/19 12/14/19 06:20PM 09:30PM M LIBR110

WE 08/26/19 12/14/19 06:20PM 08:25PM W LIBR110

WE 08/26/19 12/14/19 08:30PM 09:20PM W LIBR110

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

**COMPUTER INFORMATION SYSTEMS**

**CIS-1A**

**Intro to Comp Info Sys**

**Prerequisite:** None.

Description: An introduction to computer concepts and theory, information systems, and computer applications. The development of computer based solutions to business problems using word processors, spreadsheets, databases, presentation graphics, and the Internet.

**37143**  
Last Day to add: 09/06/19

OL 08/26/19 12/14/19  ONLINE

OL 08/26/19 12/14/19  ONLINE

The above section is an online class. Computer with Internet access required.

See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

**Instructor:** C Brotherton

**37144**  
Last Day to add: 09/06/19

OL 08/26/19 12/14/19  ONLINE

OL 08/26/19 12/14/19  ONLINE

The above section is an online class. Computer with Internet access required.

See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

**Instructor:** C Brotherton

**37145**  
Last Day to add: 09/06/19

OL 08/26/19 12/14/19  ONLINE

OL 08/26/19 12/14/19  ONLINE

The above section is an online class. Computer with Internet access required.

See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

**Instructor:** C Brotherton
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The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

**Instructor:** C Brotherton

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The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. 

**Instructor:** M Chapman

**CIS-3**

**Computer Applications for Business** 3 UNITS

**Prerequisite:** None.

Description: Introductory to intermediate concepts covering Windows operating system, file management, and various aspects of typical office applications for business and office professionals. (Same as BUS/CAT-3)

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The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com. 

**Instructor:** J Coverdale

**CIS-5**

**Programming Concepts and Methodology I: C++** 4 UNITS

**Prerequisite:** None.

Advisory: CIS-1A

Description: Introduction to the discipline of computer science incorporating problem definitions, algorithm development, and structured programming logic for business, scientific, and mathematical applications. The C++ language will be used for programming problems. 54 hours lecture and 54 hours laboratory.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Last Day to add</th>
<th>Start Date</th>
<th>End Date</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYBO 37151</td>
<td>09/06/19</td>
<td>08/26/19</td>
<td>12/14/19</td>
<td>09:00AM - 12:00PM</td>
<td>M</td>
<td>STEM115</td>
</tr>
<tr>
<td>HYBO 37152</td>
<td>09/06/19</td>
<td>08/26/19</td>
<td>12/14/19</td>
<td>09:00AM - 12:00PM</td>
<td>W</td>
<td>STEM115</td>
</tr>
</tbody>
</table>

The above section is a hybrid class and has an 54-hour lecture to be completed online. Computer with Internet access required. See www.opencampus.com. Designated laboratory hours are to be completed online. Please note the start and end dates.

**Instructor:** C McConnell-Freeman

**HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBO - Hybrid Online Lecture • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab • WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WROH - Hybrid Work Experience • WRKO - Work Experience Online**

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CIS-7

**Discrete Structures**

**3 UNITS**

**Prerequisite:** CIS/CSC-5

**Description:** This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: Functions, Relations and Set; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. 54 hours lecture and 18 hours laboratory (TBA option).

**Instructor:** C Andersen

CIS-12

**PHP Dynamic Web Site Programming**

**3 UNITS**

**Prerequisite:** None

**Advisory:** CIS/CSC-5 and CIS-72A and CIS/CSC-14A

**Description:** Dynamic web site programming using PHP. Fundamentals of server-side web programming. Introduction to database-driven web sites, using PHP to access a database such as MySQL. Web applications such as user registration, content management, and e-commerce. This course is intended for students already familiar with the fundamentals of programming and HTML. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

**Instructor:** W Herrera

CIS-17A

**Programming Concepts and Methodology II: C++**

**3 UNITS**

**Prerequisite:** CIS/CSC-5

**Description:** The application of software engineering techniques to the design and development of large programs; data abstraction, structures, and associated algorithms. A comprehensive study of the syntax and semantics of the C++ language and the methodology of Object-Oriented program development. 54 hours lecture and 18 hours laboratory. (TBA option)

**Instructor:** J Molin

CIS-18A

**Java Programming: Objects**

**3 UNITS**

**Prerequisite:** None

**Advisory:** CIS/CSC-5

**Description:** An introduction to Java programming for students already experienced in object-oriented programming and utilization of basic graphical interface techniques. An emphasis will be placed on advanced concepts associated with complex business and gaming applications that utilize exception handling, multithreading, multimedia, and database connectivity. 54 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

**Instructor:** J Oconnor

CIS-17B

**C++ Programming: Advanced Objects**

**3 UNITS**

**Prerequisite:** None

**Advisory:** CIS/CSC-17A

**Description:** This is an advanced C++ programming course for students familiar with object-oriented programming and utilization of basic graphical interface techniques. An emphasis will be placed on advanced concepts associated with complex business and gaming applications that utilize exception handling, multithreading, multimedia, and database connectivity. 54 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

**Instructor:** A Rainey
CIS-18C
Java Programming: Data Structures  3 UNITS
Prerequisite: None
Advisory: CIS/CSC-18A
Description: This course is designed to be an advanced Java programming course for students familiar with object-oriented programming and database concepts. The major emphasis will be related to concepts of storing and retrieving data efficiently, which are the essential principles, and practices of data structures. 54 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)
37819  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  05:45PM  08:55PM  T  ATEC118
08/26/19  12/14/19  09:00PM  09:50PM  T  ATEC118
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: J Oconnor

CIS-66
Web Development I  3 UNITS
Prerequisite: None.
Description: An introduction to the web technologies and languages. This course provides in-depth understanding of the roles of markup and scripting languages to display text and multimedia content for basic web pages.
37155  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  11:10AM  S  ATEC118
08/26/19  12/14/19  11:15AM  12:40PM  S  ATEC118
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: Staff

CIS-78A
Intro Adobe Photoshop  3 UNITS
Prerequisite: None.
Description: Introduction to Adobe Photoshop including selections, layers, masks, channels and vector art for manipulating images. (Same as CAT-78A)
37222  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  08:00AM  09:25AM  TTH  ATEC118
08/26/19  12/14/19  ONLINE
08/26/19  12/14/19  ONLINE
The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with internet access required. See www.opencampus.com.
Instructor: A Johnson

CIS-80
Word Processing: Microsoft Word for Windows  3 UNITS
Prerequisite: None.
Advisory: Typing knowledge/skills with at least 40 wpm
Description: Develops introductory through advanced skills to format documents using Microsoft Word. Students create fliers, letters, memos, reports and office documents. Topics include mail merge and table basics and introduces advanced features and text editing tools of Microsoft Word. Students create reference documents, online forms and newsletters. Topics may include the use of macros and collaboration and integration tools. 54 hours lecture and 18 hours laboratory. (TBA Option) (Same as CAT-80)
37157  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, will be completed online.
Instructor: C McConnell-Freeman

CIS-93
Computers for Beginners  3 UNITS
Prerequisite: None.
Description: This course is designed as a practical step-by-step introduction to computer literacy topics including computer hardware and software, application skills, the Internet and Internet searching, Web page creation and computer ethics. 54 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)
37160  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:00AM  12:10PM  F  CACT2
08/26/19  12/14/19  12:20PM  01:30PM  F  CACT2
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: Staff

CIS-98A
Introduction to Excel  1.5 UNITS
Prerequisite: None.
Description: Introductory spreadsheet development using Microsoft Excel for business and scientific related applications. The course covers introductory through intermediate spreadsheet development. 27 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.) (Same as CAT-98A)
37163  Last Day to add: 09/03/19
OL  08/26/19  10/20/19  ONLINE
08/26/19  10/20/19  ONLINE
The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, will be completed online. Please note the start and end dates.
Instructor: B Fuller
COMMUNICATION STUDIES

COM-1

Public Speaking 3 UNITS

Prerequisite: None
Advisory: COM-1 and qualification for ENG-1A
Description: Prepares students to compose (develop outlines and research) and present a minimum of four speeches, including informative and persuasive presentations in front of a live audience. Emphasis will include: different purposes of speaking, types of speeches and organizational patterns, topic choice and audience adaptation, rhetorical principles, development and support of sound reasoning and argument, theories of persuasion, application of ethics in public speaking, listening skills, and theory and principles of effective delivery. Students will speak formally for a minimum of 20 total semester minutes. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

HYB 10/21/19 12/14/19 02:30PM 03:55PM TTH LIBR121 37996 Last Day to add: 09/02/19
08/26/19 10/20/19 02:30PM 03:55PM TTH LIBR121
08/26/19 10/20/19 ONLINE

The above section is a short term hybrid class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

Instructor: M Lewis

WE 08/26/19 12/14/19 02:30PM 03:55PM MW IT210 37995 Last Day to add: 09/02/19
08/26/19 12/14/19 04:10PM 05:35PM TTH IT206

The above section is a web-enhanced class. Internet access is required.

Instructor: M Bettencourt

WE 08/26/19 12/14/19 06:00PM 09:10PM TH IT210 37715 Last Day to add: 09/02/19
08/26/19 12/14/19 06:30PM 09:40PM W WEQW6B

The above section is a web-enhanced class. Internet access is required.

Instructor: G Stinson

WE 08/26/19 12/14/19 11:15AM 12:40PM TTH ATEC210 37999 Last Day to add: 09/02/19
08/26/19 12/14/19 04:10PM 05:35PM MW IT210

The above section is an Honors course. See www.opencampus.com. Please note the start and end dates.

Instructor: E Romero

HYB 08/26/19 10/20/19 02:30PM 03:55PM TTH LIBR121
08/26/19 10/20/19 ONLINE

The above section is a short term hybrid class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

Instructor: M Lewis

WE 08/26/19 12/14/19 06:30PM 09:40PM W WEQW6B
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Description</th>
<th>Last Day to add</th>
<th>Meeting Times</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>COM-3</td>
<td>Argumentation and Debate</td>
<td>3</td>
<td>None</td>
<td>An examination of argumentation and debate including a systematic approach</td>
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<td>to the process of debate, theories of argumentation related to topic analysis,</td>
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<td>research, case construction, refutation/rebuttals, cross-examination,</td>
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<td>utilization of sound reasoning, fallacies in reasoning, and the importance</td>
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<td>of ethical behavior in debate.</td>
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<td>COM-6</td>
<td>Dynamics of Small Group Communication</td>
<td>3</td>
<td>None</td>
<td>Principles of communication in a variety of group contexts. Theory,</td>
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<td>application, and evaluation of group communication processes, including</td>
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<td>problem solving, conflict management, decision-making, and leadership. Oral</td>
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<td>group presentations required. Students will speak formally as part of a</td>
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<td>group for a minimum of 20 semester minutes. 54 hours lecture. (Letter Grade,</td>
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<td>Pass/No Pass option.)</td>
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<td>COM-9</td>
<td>Interpersonal Communication</td>
<td>3</td>
<td>None</td>
<td>Analyzes the dynamics of the two-person communication process in</td>
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<td>relationships. Students study values, communication models, listening,</td>
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<td>verbal and nonverbal communication, perception, self-concept, self-</td>
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<td>disclosure, management of emotions, relationship theories and conflict</td>
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<td>management. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)</td>
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*HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

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COM-11

Storytelling 3 UNITS

Prerequisite: None
Advisory: COM-51 and qualification for ENG-1A
Description: A study of the history, theory, and practice of the oral art of storytelling. The historical and current practice of the oral tradition of both prose and poetry will be covered using a multicultural perspective. Students will research, prepare, and perform stories from a variety of genres and cultures. Oral presentations required. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)

37177 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM M IT210

The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

COM-12

Intercultural Communication 3 UNITS

Prerequisite: None
Advisory: COM-51 and qualification for ENG-1A
Description: Introduction to the factors affecting intercultural communication focusing on culture, language, and social patterns and their influence on how members of groups relate among themselves and with members of different ethnic and cultural groups. Theory and knowledge of effective communication within and between cultures and appreciation and comparison of communication among diverse groups within the larger context of American culture are explored with an emphasis on self-evaluation and skill development. 54 hours lecture. (Letter Grade or Pass/No Pass option)

37178 Last Day to add: 09/03/19
OL 08/26/19 10/20/19 ONLINE

The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.
Instructor: A Olaerts

CONSTRUCTION TECHNOLOGY

CON-60

Introduction to Construction 3 UNITS

Prerequisite: None
Description: This course will provide an overview of the basic concepts of construction, including city and regional planning, managing, contracting, designing, engineering, estimating, bidding, inspection and production work normally associated with construction. An overview of how building codes affect the design, materials and methods of constructing buildings and other projects. Students will be expected to participate in several field trips. 54 hours lecture.

37921 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:10PM 05:35PM TTH IT123

The above section is a web-enhanced class. Internet access is required.
Instructor: J Thomas

CON-61

Materials of Construction 3 UNITS

Prerequisite: None
Description: An introduction to the materials used in the construction of buildings; identification of materials, their properties and uses. The characteristics and properties of such materials such as concrete, steel, timber, masonry, plaster, roofing and all other structural and ornamental materials. 54 hours lecture.

37194 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:30PM 09:40PM T IT123

The above section is a web-enhanced class. Internet access is required.
Instructor: P Link

CON-62

Blueprint Reading 3 UNITS

Prerequisite: None.
Description: Overview of the basic concepts of reading construction blueprints.

37195 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM M IT120

The above section is a web-enhanced class. Internet access is required.
Instructor: R Skaggs

CON-65

Plumbing Code 3 UNITS

Prerequisite: None
Description: Review of plumbing codes including discussion and analysis of the application of physical laws in development of the code requirements. 54 hours lecture.

37200 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:30PM 09:40PM TH IT122

The above section is a web-enhanced class. Internet access is required.
Instructor: J Thomas

CON-66

National Electrical Code 3 UNITS

Prerequisite: None
Description: Review of electrical codes including discussion and analysis of the application of physical laws in development of the code requirements. 54 hours lecture.

37201 Last Day to add: 10/26/19
WE 10/22/19 12/12/19 02:00PM 05:20PM TTH ATEC119

The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: Staff

37202 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM M IT123

The above section is a web-enhanced class. Internet access is required.
Instructor: J Thomas
CON-68
Simplified Engineering for Building Inspectors 3 UNITS
Prerequisite: None
Description: Introduction to basic engineering. Fundamental static and stress formulae. Shear and moment diagrams and their applications. Properties of sections and their uses. Design of wood joists, beams, posts and use of tables with practical composite design applications. 54 hours lecture.
37207 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM 03:55PM M ATEC109
08/26/19 12/14/19 04:05PM 05:30PM M ATEC109
08/26/19 12/14/19 02:30PM 05:40PM W ATEC109
The above section is a web-enhanced class. Internet access is required.
Instructor: F Mirzaei

DFT-22
Engineering Drawing (same As Ene-22) 3 UNITS
Prerequisite: DFT/ENE-21
Advisory: ENE-30
Description: Drafting fundamentals briefly reviewed, geometric construction, orthographic projections, freehand sketching, sectioning, auxiliary views, shop processes, dimensions and tolerances, fasteners, working and pictorial drawings, and as time permits, piping and electrical drawings. 27 hours lecture and 90 hours laboratory.(Letter Grade, or Pass/No Pass option.)
37208 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 03:25PM T ATEC109
08/26/19 12/14/19 03:35PM 05:25PM T ATEC109
08/26/19 12/14/19 02:00PM 05:20PM TH ATEC109
The above section is a web-enhanced class. Internet access is required.
Instructor: F Mirzaei

CON-70
Soil Tech Fndamentls 3 UNITS
Prerequisite: None.
Description: Inspection and testing of soils, their classification and characteristics. 37204 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:30PM 09:40PM T IT122
The above section is a web-enhanced class. Internet access is required.
Instructor: J Thomas

DANCE
DAN-6
Dance Appreciation 3 UNITS
Prerequisite: None
Description: A nontechnical course for the general student leading to the appreciation and understanding of dance as a medium of communication, entertainment, and as an art form. 54 hours lecture. (Letter Grade, or Pass/No Pass option.)
37205 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 10:30AM 02:35PM F ATEC114
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

DRAFTING
DFT-21
Drafting (same As Ene-21) 3 UNITS
Prerequisite: None.
Description: Fundamentals of mechanical drawing including lettering, instruments, projection, freehand drawing, and auxiliary views.
37206 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:30AM 09:55AM T ATEC109
08/26/19 12/14/19 10:05AM 11:30AM T ATEC109
08/26/19 12/14/19 08:30AM 11:40AM TH ATEC109
The above section is a web-enhanced class. Internet access is required.
Instructor: A Johnson

DFT-27
Technical Communications (same As Ele/Ene-27) 3 UNITS
Prerequisite: None
Description: Procedures for organizing and presenting technical data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and formal technical reports. Also includes discussion of personal resume and preparation of job applications. 54 hours lecture.
37210 Last Day to add: 10/25/19
WE 10/21/19 12/11/19 08:00AM 11:20AM MW IT124
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: A Johnson
37209 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM T ATEC109
The above section is a web-enhanced class. Internet access is required.
Instructor: A Johnson

DFT-30
Computer Aided Drafting (CAD) (same As Ene-30) 3 UNITS
Prerequisite: None
Advisory: CIS-1A
Description: A two-dimensional computer aided drafting class for drafters. Students will use an AUTOCAD computer drafting system to develop computer drawn drawings, which are typical to the various fields of drafting. 27 hours lecture and 90 hours laboratory.
37901 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:40PM M ATEC109
08/26/19 12/14/19 12:50PM 02:15PM M ATEC109
08/26/19 12/14/19 11:15AM 02:25PM W ATEC109
The above section is a web-enhanced class. Internet access is required.
Instructor: F Mirzaei
**DFT-42**

**Solidworks I (same As Ene-42)** 3 UNITS

**Prerequisite:** None

**Advisory:** PC computer experience recommended

**Description:** This course is designed to introduce the student to three-dimensional parametric solid modeling with SolidWorks. Students will begin with basic parametric solid modeling techniques advancing into complex assemblies requiring animation. 27 hours lecture and 90 hours of laboratory.

**Instructor:** A Farmand

**DFT-51**

**Blueprint Reading (same As Ene-51)** 2 UNITS

**Prerequisite:** None

**Description:** A beginning course in the study of blueprints and their interpretation, types of projection, symbols and abbreviations. This course is designed for students interested in print reading for the machine trades. 27 hours lecture and 27 hours laboratory. (Letter Grade, or Pass/No Pass option.)

**Instructor:** M Dowlatabadi

**DFT-52**

**Geometric Dimensioning and Tolerancing (same As Ene-52)** 2 UNITS

**Prerequisite:** None

**Description:** A course presenting the basics of the Standards of Geometric Dimensioning and Tolerancing. This course will help students read, interpret and use ANSI Y14.5M, the current standard for drafting. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)

**Instructor:** G Cordier

**DFT-60**

**Math for Engineering Technology (same As Ene-60)** 3 UNITS

**Prerequisite:** None

**Description:** Math problems used in industry, including basic arithmetic, algebra, geometry and trigonometry.

**Instructor:** Staff

**EARLY CHILDHOOD EDUCATION**

**EAR-19**

**Observation and Assessment-ECE** 3 UNITS

**Prerequisite:** None.

**Description:** Appropriate use of a variety of assessment and observation strategies to document child development and behavior.

**Instructor:** S Burnett
### EAR-20
**Child Growth and Development**  
**3 UNITS**  
**Prerequisite:** None  
Description: This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. Outside observations required. 54 hours lecture.  
37217: Last Day to add: 09/06/19  
OL: 08/26/19 12/14/19 11:15AM 12:40PM TTH IT209  
The above section is an online class. Computer with Internet access required.  
**Instructor:** S Sumiati  
37945: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 03:00PM 04:25PM MW HM126  
The above section is restricted to Santiago High School students participating in Norco College’s Dual Enrollment Program.  
**Instructor:** L Vazquez  
37216: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 09:40AM 11:05AM TTH IT209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** S Burnett  
37215: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 06:00PM 09:10PM M IT209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** A Calloway

### EAR-25
**Teaching in a Diverse Society**  
**3 UNITS**  
**Prerequisite:** None  
Description: Students will examine the development of social identities in a diverse society and consider culturally relevant and linguistically anti-bias approaches to supporting all children become competent members of a diverse society.  
37224: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 06:00PM 09:10PM W IT209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** T Oliver

### EAR-26
**Health, Safety and Nutrition**  
**3 UNITS**  
**Prerequisite:** None  
Description: A study of health, safety and nutrition factors of importance to the teacher, child and family of the young child.  
37225: Last Day to add: 09/06/19  
OL: 08/26/19 12/14/19 ONLINE  
The above section is an online class. Computer with Internet access required.  
**Instructor:** L Vazquez

### EAR-28
**Principles and Practices of Teaching Young Children**  
**3 UNITS**  
**Prerequisite:** None  
Description: An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. Includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. 54 hours lecture.  
37804: Last Day to add: 09/06/19  
OL: 08/26/19 12/14/19 ONLINE  
The above section is an online class. Computer with Internet access required.  
**Instructor:** S Burnett  
37226: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 09:15AM 12:25PM W IT209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** S Burnett

### EAR-33
**Infant and Toddler Development**  
**3 UNITS**  
**Prerequisite:** None  
A study of infants and toddlers development from pre-conception to age three.  
**Prerequisite:** None.  
37805: Last Day to add: 09/06/19  
WE: 08/26/19 12/14/19 02:00PM 05:10PM T IT209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** L Vazquez
The above section is a web-enhanced class that has 108 lab hours that must be completed. Each student will be assigned a practicum site on the first Thursday afternoon class session. Pursuant to California Law SB792 all students enrolled in this class must have proof of immunization against measles, pertussis (Tdap), and tuberculosis (TB). By the first class meeting students must have a completed Child Development Course Clearance Checklist showing immunization clearance. Immunizations and TB tests can be obtained at the Norco College Health Services office, or through your personal health provider. Copies of the clearance form can be located at http://www.norcoccollege.edu/services/health/Documents/SB792%20Immunization%20Checklist%20Norco%20College_r3.pdf. Take this blank form with your evidence of immunization to the Norco Health Center for clearance and bring a copy on the first day of the practicum. The first day of the practicum for all section begins on the first Thursday afternoon class session.

**Instructor:** M Adams

**EAR-42**

**Child, Family, and Community**

**Prerequisite:** None.

Description: An examination of the developing child in a societal context focusing on child, family, and the community with an emphasis on historical and socio-cultural factors.

**3 UNITS**

WE 08/26/19 12/14/19 02:00PM 03:55PM MW IT209

The above section is a web-enhanced class. Internet access is required.

**Instructor:** M Adams

**EAR-43**

**Children with Challenging Behaviors**

**Prerequisite:** EAR-19 EAR-20

Description: This course provides an overview of the developmental, environmental and cultural factors that impact the behavior of young children, including family stressors, child temperament, violence, attachment disorders, and special needs; and proactive intervention and prevention techniques. Topics include addressing reasons children misbehave, how to carefully observe a child, how to create a positive environment to encourage appropriate behavior, and how to effectively address many types of behaviors including those that are aggressive and antisocial, disruptive, destructive, emotional and dependent. Outside observations required. 54 hours lecture.

**3 UNITS**

WE 08/26/19 12/14/19 06:00PM 09:10PM TH IT209

The above section is a web-enhanced class. Internet access is required.

**Instructor:** M Adams

**ECONOMICS**

**ECO-4**

**Intro Economics**

**Prerequisite:** None.

Description: An entry-level, general education course which introduces and surveys basic macroeconomic and microeconomic principles.

**3 UNITS**

WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT109

The above section is a web-enhanced class. Internet access is required.

**Instructor:** C Rajakone

**37232**

**Last Day to add:** 09/06/19

WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT109

The above section is a web-enhanced class. Internet access is required.

**Instructor:** C Rajakone

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ECO-7
Principles of Macroeconomics 3 UNITS
Prerequisite: MAT-52
Advisory: MAT-35 and qualification for ENG-1A
Description: Economic theory and analysis as applied to the U.S. economy as a whole. Emphasizes aggregative economics dealing with the macroeconomic concepts of national income and expenditure, aggregate supply and demand, fiscal policy, monetary policy, and economic stabilization and growth. Students may not receive credit for both ECO-7 and ECO-7H. 54 hours lecture.
Instructor: P Boelman

ELEC-73
Electric Motors and Transformers (same As Ele-73) 4 UNITS
Prerequisite: None
Description: Enables electricians to understand and effectively wire most standard DC motors, servos and steppers, as well as many AC motors, including single and poly-phase units, from fractional horsepower to multi-horsepower, industrial giants. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
Instructor: T Childers

ECO-8
Principles of Microeconomics 3 UNITS
Prerequisite: MAT-52
Advisory: MAT-35 and qualification for ENG-1A
Description: Economic theory and analysis as applied to consumer and producer behavior in markets. Emphasizes the allocation of resources and the distribution of income through the price mechanism, and deals with the microeconomic concepts of equilibrium in product and factor markets, perfect and imperfect competition, government intervention in the private sector, and international trade and finance. 54 hours lecture.
Instructor: P Boelman

ELC-72
Commercial and Industrial Electrical Wiring (same As Ele-72) 4 UNITS
Prerequisite: None
Description: Wiring of commercial and industrial buildings including equipment grounding, service grounding, power distribution, conduit types, metal, plastic, flexible, browsing and supporting, light distribution and blueprint reading. Hands-on lab experiences are selected to reinforce key theories. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option)
Instructor: P Boelman

ELC-74
Industrial Wiring and Controls (same As Ele-74) 4 UNITS
Prerequisite: None Course Credit Recommendation: Degree Credit
Description: 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. (Letter Grade or Pass/No Pass option)
Instructor: Staff
**ELC-75**  
**Solid State Devices and Lighting Controls (same As Ele-75)**  
**3 UNITS**  
**Prerequisite:** None  
**Course Credit Recommendation:** Degree Credit  
**Description:** Students will learn about solid state device (electronics), sensors, SCR (silicon control rectifier), transistors, proximity and light sensors used in most industrial and commercial installations. Included will be showing students different types of sensors used for controlling motors, conveyors, and lighting devices. 36 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)  
37897  
*Last Day to add:* 09/06/19  
*WE:* 08/26/19  12/14/19  08:00AM  10:05AM  S  CACT2  
08/26/19  12/14/19  10:15AM  01:25PM  S  CACT2  
*The above section is a web-enhanced class. Internet access is required.*  
**Instructor:** G Graham  

**ELC-77**  
**Electrical Theory for Electricians (same As Ele/Man-77)**  
**3 UNITS**  
**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, Kirchhoff’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.)  
37898  
*Last Day to add:* 09/06/19  
*WE:* 08/26/19  12/14/19  06:00PM  06:50PM  M  ATEC119  
08/26/19  12/14/19  07:00PM  07:50PM  W  ATEC119  
08/26/19  12/14/19  07:15PM  08:40PM  MW  ATEC119  
*The above section is a web-enhanced class. Internet access is required.*  
**Instructor:** Staff  

**ELE-10**  
**Survey Electronics**  
**4 UNITS**  
**Prerequisite:** None  
**Description:** Basic electronic theory including electron theory, Ohm’s Law, DC, AC, vacuum tube and solid state devices, antenna principles, power supplies, amplifiers, RE oscillators, amplitude and frequency modulation, diode detection and superheterodyne receivers, and test equipment operation (emphasis on voltmeter and oscilloscope operation). 54 hours lecture and 54 hours laboratory.  
37887  
*Last Day to add:* 09/01/19  
*WE:* 08/26/19  10/16/19  11:35AM  03:40PM  MW  ATEC119  
08/26/19  10/16/19  03:45PM  05:15PM  MW  ATEC119  
*The above section is a short-term web-enhanced class. Internet access is required.*  
**Instructor:** G Graham  

**ELE-11**  
**DC Electronics**  
**4 UNITS**  
**Prerequisite:** None  
**Description:** Basic DC electrical theory, devices, circuits and applications including resistors, capacitors, coils and motors.  
37240  
*Last Day to add:* 09/06/19  
*WE:* 08/26/19  12/14/19  06:00PM  08:50PM  T  STEM302  
08/26/19  12/14/19  06:00PM  06:50PM  TH  STEM302  
08/26/19  12/14/19  07:00PM  08:25PM  TH  STEM302  
*The above section is a web-enhanced class. Internet access is required.*  
**Instructor:** G Graham  

**ELE-27**  
**Technical Communications**  
**3 UNITS**  
**Prerequisite:** None  
**Description:** Procedures for organizing and presenting technical data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and formal technical reports. Also includes discussion of personal resume and preparation of job applications. 54 hours lecture.  
37242  
*Last Day to add:* 10/25/19  
*WE:* 10/21/19  12/11/19  08:00AM  11:20AM  MW  IT124  
*The above section is a short term web-enhanced class. Internet access is required.*  
**Please note the start and end dates.**  
**Instructor:** A Johnson  
37241  
*Last Day to add:* 09/06/19  
*WE:* 08/26/19  12/14/19  06:00PM  09:10PM  T  ATEC109  
*The above section is a web-enhanced class. Internet access is required.*  
**Instructor:** A Johnson  

**ELE-64**  
**Programmable Logic Controllers**  
**3 UNITS**  
**Prerequisite:** None  
**Advisory:** ELE-10 or ELE-11  
**Description:** Fundamentals of programmable logic controllers, with an emphasis on introductory programming of PLCs. Problem analysis with solutions that integrate programming formats, auxiliary commands and functions, common programming languages, and popular software programs used with PLCs. Installation, maintenance, troubleshooting and repair are inherent components. 36 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)  
37893  
*Last Day to add:* 09/02/19  
*WE:* 08/27/19  10/17/19  09:45AM  11.5AM  TTH  IT124  
08/27/19  10/17/19  12:30PM  03:40PM  TTH  IT124  
*The above section is a short term web-enhanced class. Internet access is required.*  
**Please note start and end dates.**  
**Instructor:** Staff  

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**Electronic Theory for Electricians**  
**Course Credit Recommendation:** Degree Credit  
**Description:** Students will learn electrical theory including electron theory, Ohm’s Law, DC, AC, vacuum tube and solid state devices, antenna principles, power supplies, amplifiers, RE oscillators, amplitude and frequency modulation, diode detection and superheterodyne receivers, and test equipment operation (emphasis on voltmeter and oscilloscope operation). 54 hours lecture and 54 hours laboratory.  
**Instructor:** G Graham
ELE-72
Commercial and Industrial Electrical Wiring (same As ELC-72) 4 UNITS
Prerequisite: None.
Description: Wiring of commercial and industrial buildings including equipment grounding, service grounding, power distribution, conduit types, metal, plastic, flexible, bending and supporting, light distribution, and blueprint reading. Hands-on lab experiences are selected to reinforce key theories. 54 hours lecture and 54 hours laboratory.
Last Day to add: 10/29/19
WE 10/21/19, 12/14/19 08:00AM 11:15AM  F ATEC119
10/21/19, 12/14/19 11:15AM 02:30PM  F ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: T Childers

ELE-73
Electric Motors and Transformers (same As ELC-73) 4 UNITS
Prerequisite: None.
Description: Enables electricians to understand and effectively wire most standard DC motors, servos and steppers, as well as many AC motors, including single and poly-phase units, from fractional horsepower to multi-horsepower, industrial giants. 54 hours lecture and 54 hours laboratory.
Last Day to add: 10/31/19
WE 08/31/19, 12/14/19 08:00AM 11:10AM  S ATEC119
08/31/19, 12/14/19 11:10AM 02:40PM  S ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

ELE-74
Industrial Wiring and Controls (same As ELC-74) 4 UNITS
Prerequisite: None.
Description: 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. (Letter Grade or Pass/No Pass option.)
Last Day to add: 10/29/19
WE 10/21/19, 12/13/19 11:15AM 01:30PM  MW IT124
10/21/19, 12/13/19 02:15PM 04:30PM  MW IT124
10/21/19, 12/13/19 02:30PM 04:45PM  F IT124
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: Staff

ELE-75
Solid State Devices Lighting Controls (same As ELC-75) 3 UNITS
Prerequisite: None.
Description: Learn to integrate electronic devices into electrical systems.
Last Day to add: 09/06/19
WE 08/26/19, 12/14/19 08:00AM 10:05AM  S CACT2
08/26/19, 12/14/19 10:15AM 01:25PM  S CACT2
The above section is a web-enhanced class. Internet access is required.
Instructor: G. Graham

ELE-77
Electrical Theory (same As ELC/Man-77) 3 UNITS
Prerequisite: None.
Description: This course introduces students to electrical theory, Ohm’s Law, magnetism, voltage inductance, capacitance, units of electric measurement, and proper usage of electrical test equipment (meters). Student will learn concepts of electrical energy, Kirchoff’s law, Norton’s and Thevenin’s theorems, algebraic and trigonometric requirements to solve electrical problems for both (A/C) alternating current and (D/C) direct current circuits. Student will learn basic electrical safety procedures, including the proper usage and requirement of (PPE) personal protection equipment. 54 hours lecture. (Letter Grade or Pass/No Pass option.)
Last Day to add: 09/06/19
WE 08/26/19, 12/14/19 06:00PM 06:50PM  M ATEC119
08/26/19, 12/14/19 07:00PM 07:50PM  W ATEC119
08/26/19, 12/14/19 07:15PM 08:40PM  MW ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: K Rad

ELE-400
Introduction to the Electrical Trades And Construction Safety (same As ELC-400) 3.5 UNITS
Prerequisite: None.
Description: Focusing on electrical trades, students will examine safety issues surrounding construction job-sites and installation of electrical systems. Includes OSHA 10 Construction certification training, identification of job-site hazards, safe work practices and personal protective equipment for various construction site hazards. Care for breathing and cardiac emergencies along with basic first aid and automatic external defibrillator (AED) training for use on both adults and children. Substance abuse will be addressed. Basic math operations will be reviewed and reinforced. 45 hours lecture and 54 hours laboratory.
Last Day to add: DATE
LEC 08/26/19, 12/14/19 03:00PM 04:10PM  MW JACT1
08/26/19, 12/14/19 04:20PM 05:45PM  MW JACT1
The above course is part of a 5-year apprenticeship program. Interested students may apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committee. (909) 890-1703.
Instructor: Staff
ELE-402
Advanced DC Circuit Concepts, Introduction to 3-Phase AC Circuits, Test Equipment, and National Electric Code Applications (same As Elc-402) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Digital logic concepts and their real-world application. Electrician identification, selection, and installation of electrical conductors in accordance with National Electric Code (NEC). 45 hours lecture and 54 hours laboratory.

LEC 08/26/19 12/14/19 03:00PM 04:10PM MW JACT2
LEC 08/26/19 12/14/19 04:20PM 05:45PM MW JACT2

The above course is part of a 5-year apprenticeship program. Interested students may apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committee. (909) 890-1703.

Instructor: Staff

ELE-404
Digital Logic Circuits, Conductor Characteristics, Applications, and National Electric Code (NEC) (same As Elc-404) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Digital logic concepts and their real-world application. Electrician identification, selection, and installation of electrical conductors in accordance with National Electric Code (NEC). 45 hours lecture and 54 hours laboratory.

LEC 08/26/19 12/14/19 03:00PM 04:10PM TTH JACT2
LEC 08/26/19 12/14/19 04:20PM 05:45PM TTH JACT2

The above course is part of a 5-year apprenticeship program. Interested students may apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committee. (909) 890-1703.

Instructor: Staff

ELE-406
Grounding Systems, Advanced Blueprints and Specifications, Motor Design and Installation, and National Electric Code (same As Elc-406) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Advanced concepts for blueprints and specifications. Study of motor design and application and National Electric Code concepts. 45 hours lecture and 54 hours laboratory.

LEC 08/26/19 12/14/19 03:00PM 04:10PM TTH JACT3
LEC 08/26/19 12/14/19 04:20PM 05:45PM TTH JACT3

The above course is part of a 5-year apprenticeship program. Interested students may apply to the Riverside and San Bernardino Joint Electrical Apprenticeship Training Committee. (909) 890-1703.

Instructor: Staff
ELE-408
Transformer Theory, Leadership, Management, and Test Equipment
(same As Elc-408) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Explores electrician theory and field application of transformers, test equipment, including management and leadership principles for supervisors, along with special equipment for security systems for the grid. 45 hours lecture and 54 hours laboratory.

Instructor: Staff

ELE-422
Electrical Theory and Practices AC (same As Elc-422) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Study of apprenticeship, electrical inductance, capacitance and reactance, including grounded conductors, branch circuits, transformer principles, RCL circuits and filters. 45 hours lecture and 54 hours laboratory.

Instructor: Staff

ELE-424
Introduction to Digital Electronics and Signaling Devices
(same As Elc-424) 3.5 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a registered State indentured apprentice
Description: Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data. 45 hours lecture and 54 hours laboratory.

Instructor: Staff

ELE-499
Electrician Apprenticeship Work Experience (same As Elc-499) 1 UNITS

Prerequisite: None
Limitation on enrollment: Student must be a State indentured apprentice
Description: This course provides students the opportunity to work in the electricians apprenticeship program for the purpose of developing specific skills to meet the goals and objectives of the electricians Joint Apprenticeship and Training Committee (J.A.T.C.). Students complete work experience hours at approved training sites. Students may take up to 16 units total across all work experience course offerings. This course may be taken up to four times when there are new or expanded learning objectives. Only one work experience course may be taken per semester. 60 hours of volunteer work experience (maximum of 240 hours) or 75 hours of paid work experience (maximum of 300 hours) are required for each enrolled unit.

Instructor: Staff
ENE-21
Drafting 3 UNITS
Prerequisite: None.
Description: Fundamentals of mechanical drawing including lettering, instruments, projection, freehand drawing, and auxiliary views.
Instructor: A Johnson

ENE-22
Engineering Drawing 3 UNITS
Prerequisite: ENE-21
Advisory: ENE-30
Description: Drafting fundamentals briefly reviewed, geometric construction, orthographic projections, freehand sketching, sectioning, auxiliary views, shop processes, dimensions and tolerances, fasteners, working and pictorial drawings, and as time permits, piping and electrical drawings. 27 hours lecture and 90 hours laboratory. (Letter Grade, or Pass/No Pass option.)
Instructor: F Mirzaei

ENE-27
Technical Communications 3 UNITS
Prerequisite: None
Description: Procedures for organizing and presenting technical data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and formal technical reports. Also includes discussion of personal resume and preparation of job applications. 54 hours lecture.
Instructor: A Johnson

ENE-30
Computer Aided Drafting (CAD) 3 UNITS
Prerequisite: None
Advisory: CIS-1A
Description: A two-dimensional computer aided drafting class for drafters. Students will use an AUTOCAD computer drafting system to develop computer drawn drawings, which are typical to the various fields of drafting. 27 hours lecture and 90 hours laboratory.
Instructor: F Mirzaei

ENE-42
SolidWorks I 3 UNITS
Prerequisite: None
Advisory: PC computer experience recommended
Description: This course is designed to introduce the student to three-dimensional parametric solid modeling with SolidWorks. Students will begin with basic parametric solid modeling techniques advancing into complex assemblies requiring animation. 27 hours lecture and 90 hours laboratory.
Instructor: Staff
EEN-42B
SolidWorks II

Prerequisite: ENE-42 or prior SolidWorks experience
Description: An advanced course in using the three-dimensional parametric solid-mod-eler SolidWorks. This course is designed to further 3D parametric solid modeling software techniques learned in SolidWorks I. Students will delve deeper into topics that were introduced in the first SolidWorks course such as extruding, sweeping, lofting, shelling, assemblies, and animation. 27 hours lecture and 90 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: F Mirzaei

ENE-51
Blueprint Reading

Prerequisite: None
Description: A beginning course in the study of blueprints and their interpretation, types of projection, symbols and abbreviations. This course is designed for students interested in print reading for the machine trades. 27 hours lecture and 27 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: S Inceoglu

ENE-52
Geometric Dimensioning and Tolerancing

Prerequisite: None
Description: A course presenting the basics of the Standards of Geometric Dimensioning and Tolerancing. This course will help students read, interpret and use ANSI Y14.5M, the current standard for drafting. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)

Instructor: G Cordier

ENE-60
Math for Engineering Technology

Prerequisite: None
Description: Math problems used in industry, including basic arithmetic, algebra, geometry and trigonometry.

Instructor: A Johnson

ENE-62
Math for Automated Systems

Prerequisite: None
Description: 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.

Instructor: A Johnson
ENGLISH

ENGLISH COMPOSITION COURSES

ENGLISH 1B/1BH
- A grade of C or better in ENG-1A/1AH

ENGLISH 1A/1AH
- Qualifying preparation score based on the ACCUPLACER® test and academic background; or
- A grade of C or better in ENG-50
- Approved alternative placement method (see Counseling for available options)

ENGLISH 1A

Engglish Composition 4 UNITS

Prerequisite: ENG-50 or ENG-80 or qualifying placement level

Description: Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will produce a minimum of 10,000 words of instructor-evaluated writing. Classroom instruction integrates writing lab activities. Students may not receive credit for both ENG-1A and ENG-1AH. 72 hours lecture and 18 hours laboratory. (TBA option)

Instructor: Staff

ENGLISH 50

Qualifying preparation score based on the ACCUPLACER® test and academic background: or
- Successful completion of ENG-60B or ESL-55

ENG-1A
English Composition 4 UNITS

Prerequisite: ENG-60B or ESL-55 or qualifying placement level

Description: Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will produce a minimum of 10,000 words of instructor-evaluated writing. Classroom instruction integrates writing lab activities. Students may not receive credit for both ENG-1A and ENG-1AH. 72 hours lecture and 18 hours laboratory. (TBA option)

Instructor: Staff

ENGLISH 1B/1BH

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: Staff

OL
08/26/19 12/14/19 ONLINE
08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: Staff

OL
08/26/19 10/20/19 ONLINE
08/26/19 10/20/19 ONLINE

ENGLISH 1A/1AH

The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online. Please note the start and end dates.

Instructor: Staff

OL
10/21/19 12/14/19 ONLINE
10/21/19 12/14/19 ONLINE

ENGLISH 1B/1BH

The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online. Please note the start and end dates.

Instructor: Staff

OL
08/26/19 10/20/19 ONLINE
08/26/19 10/20/19 ONLINE

ENGLISH 50

The above section is a web-enhanced class and is linked to ENG 91 37907. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use Web Advisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

Instructor: Staff

OL
10/21/19 12/14/19 07:20AM 09:25AM MF IT111
10/21/19 12/14/19 07:20AM 09:25AM MF IT121

The above section is a web-enhanced class and is linked to ENG 91 37907. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use Web Advisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

Instructor: Staff

OL
10/21/19 12/14/19 07:20AM 09:25AM T IT111
10/21/19 12/14/19 07:20AM 09:25AM T IT121

The above section is a web-enhanced class and is linked to ENG 91 37907. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use Web Advisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

Instructor: Staff

OL
10/21/19 12/14/19 07:20AM 09:25AM T IT111
10/21/19 12/14/19 07:20AM 09:25AM T IT121

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NORCO COLLEGE
ENGLISH 1A/91

To enroll in an English 1A section that is paired with an English 91 course, select one of the pairs below and use the course section numbers to sign up. Each section of English 1A is linked to a specific section of English 91, and students must enroll in both (and the WRC-LAB hour for English 1A). Instructors for each of the sections are listed in the schedule of classes section with the complete list of all English courses.

<table>
<thead>
<tr>
<th>ENG-1A</th>
<th>ENG-91</th>
<th>Time</th>
<th>Instructor</th>
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<tr>
<td>37891 M/F</td>
<td>37911 W</td>
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<tr>
<td>37879 T/Th</td>
<td>37363 W</td>
<td>9:00 - 11:05 am</td>
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</tr>
<tr>
<td>37883 T/Th</td>
<td>37906 T/Th</td>
<td>10:45 am - 12:50 pm</td>
<td>Staff</td>
</tr>
<tr>
<td>37310 T/Th</td>
<td>37909 T/Th</td>
<td>8:00 - 10:05 am</td>
<td>Staff</td>
</tr>
<tr>
<td>37286 M/W/F</td>
<td>37913 M/W</td>
<td>9:15 - 10:30 am</td>
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<tr>
<td>37296 T/Th</td>
<td>37360 T/Th</td>
<td>9:40 - 11:45 am</td>
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</tr>
<tr>
<td>37308 M/W/F</td>
<td>37359 M/W</td>
<td>11:15 am - 12:30 pm</td>
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<th>ENG-1A</th>
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<td>37314 M/W</td>
<td>37362 M/W</td>
<td>10:50 am - 12:55 pm</td>
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<td>37300 T/Th</td>
<td>37910 T/Th</td>
<td>2:00 - 4:05 pm</td>
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<tr>
<td>37886 T/Th</td>
<td>37907 T/Th</td>
<td>4:15 - 6:20 pm</td>
<td>Staff</td>
</tr>
<tr>
<td>37884 T/Th</td>
<td>37904 T/Th</td>
<td>4:15 - 6:20 pm</td>
<td>Staff</td>
</tr>
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</table>
**English Composition at Norco College**

Every student has the right to enroll directly into English 1A without taking English 91. If you would like more information on enrolling directly into English 1A without 91, see the challenge/opt in process at the Counseling Office.

- **ENG-1A**
  - English Composition

- **ENG-1A** + **ENG 91**
  - English Composition + Academic Support for English 1A

- **ENG-1B**
  - Critical Thinking and Writing

*Note: Research shows that taking even one class below college-level composition (such as English 50) will make it less likely for students to complete English 1A. However, Norco College may offer sections of English 50 for students who wish to opt into this pathway. No students will be placed into English 50 automatically.

**English as a Second Language**

- **ESL-92**
  - Intermediate

- **ESL-72**
  - Intermediate

- **ESL-93**
  - Advanced

- **ESL-73**
  - High Intermediate

- **ESL-74**
  - High Intermediate

- **ESL-53**
  - Intermediate

- **ESL-54**
  - High Intermediate

- **ESL-55**
  - Advanced

* Indicates UC/CSU transferable course

** Moving Through Reading **

**Reading 83**

Reading 83 reviews reading and writing skills and strategies to get you to reading competency and prepare you for English 1A and other content area courses in STEM, Social Sciences, and Humanities.

**Reading 3**

Reading 3 provides students with a study of fundamental academic and content-area specific reading skills and strategies needed for success in college and beyond. This course meets the reading competency graduation requirement.

**Transferable Reading Courses**

**Reading 3**

Reading 3 provides students with a study of fundamental, academic and content-area specific reading skills and strategies needed for success in college and beyond. This course meets the reading competency graduation requirement.

**Reading 4**

Reading 4 satisfies the critical thinking requirement at CSU. This course centers on reading persuasive writing and argument. Students use critical thinking to analyze and evaluate ideas encountered in academic reading.

- **REA-3**
  - Reading for Academic Success

- **REA-4**
  - College Reading as Critical Thinking**

* Indicates CSU Transferable course

**Satisfies CSU Critical Thinking requirement

**Shaded areas indicate possible course placements**
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

37885  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  07:20AM  09:25AM  TTH  IT108
08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

3723  Last Day to add: 09/02/19
HYB  08/26/19  10/20/19  07:20AM  09:25AM  TH  IT110
08/26/19  10/20/19  ONLINE
08/26/19  10/20/19  ONLINE

The above section is a short term hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com. Please note the start and end dates.

Instructor: Staff

37286  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:15AM  10:30AM  MWF  IT110
08/26/19  12/14/19  IT121

The above section is a web-enhanced class and is linked to ENG 91 37363. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

Instructor: Staff

37313  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  09:15AM  11:05AM  M  IT206
08/26/19  12/14/19  ONLINE
08/26/19  12/14/19  ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff
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<thead>
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<th>Course Code</th>
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<td>08/26/19</td>
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<td>HUM102 ONLINE</td>
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<td>HYB 37296</td>
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<td>12/14/19</td>
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<td>HYB 37291</td>
<td>08/26/19</td>
<td>12/14/19</td>
<td>TH</td>
<td>09:40AM - 11:45AM</td>
<td>HUM102 ONLINE</td>
</tr>
</tbody>
</table>

The above section is a hybrid class and an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

**Instructor**: Staff

The above section is a web-enhanced class and is linked to ENG 91 37360. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

**Instructor**: Staff

The above section is a web-enhanced class and is linked to ENG 91 37362. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

**Instructor**: Staff

The above section is a web-enhanced class and is linked to ENG 91 37359. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

**Instructor**: Staff

The above section is a hybrid class and an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

**Instructor**: Staff


**Instructor**: Staff

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The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

WE 08/26/19 12/14/19 02:00PM 04:05PM MW CACT1
08/26/19 12/14/19 IT121

The above section is a web-enhanced class and is linked to ENG 91 37910. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in WebAdvisor for available laboratory sections.

Instructor: Staff

WE 08/26/19 12/14/19 02:00PM 04:05PM TTH CACT1
08/26/19 12/14/19 IT121

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

HYB 08/26/19 12/14/19 02:00PM 04:05PM T ONLINE
08/26/19 12/14/19 ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

HYB 08/26/19 12/14/19 03:00PM 05:05PM MW ERHSB211
08/26/19 12/14/19 ONLINE
08/26/19 12/14/19 ONLINE

The above section is restricted to Santiago High School students participating in Norco College's Dual Enrollment Program. The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

WE 08/26/19 12/14/19 04:15PM 06:20PM MW IT108
08/26/19 12/14/19 IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

HYB 08/26/19 12/14/19 02:00PM 04:05PM TH IT123
08/26/19 12/14/19 ONLINE
08/26/19 12/14/19 ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

WE 08/26/19 12/14/19 02:45PM 04:00PM MWF IT110
08/26/19 12/14/19 IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37882  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM  06:20PM  TTH  IT108
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37888  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM  06:20PM  TTH  IT110
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and is linked to ENG 91 37904. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

**Instructor:** Staff

37886  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM  06:20PM  TTH  IT208
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and is linked to ENG 91 37907. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This class must be taken simultaneously with ENG 91 (2 UNITS). In order to enroll in this section of ENG 1A (4 Units), you must first enroll in ENG 91. In addition to the time spent in the above class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week to fulfill the 18-hour laboratory requirement. Students must use WebAdvisor to schedule their lab requirement. See WL-LAB in Web Advisor for available laboratory sections.

**Instructor:** Staff

37316  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  06:00PM  07:30PM  TH  WEQW6B
     08/26/19  12/14/19  ONLINE
     08/26/19  12/14/19  ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

**Instructor:** Staff

37302  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:15PM  08:20PM  MW  IT111
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37888  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT110
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37317  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  08:00PM  09:45PM  TH  WEQW6B
     08/26/19  12/14/19  ONLINE
     08/26/19  12/14/19  ONLINE

The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.

**Instructor:** Staff

**ENG-1AH**

Honors English Composition  4 UNITS

**Prerequisite:** ENG-50 or ENG-80 or qualifying placement level

Limitation on enrollment: Enrollment in the Honors Program

Description: Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will produce a minimum of 10,000 words of instructor-evaluated writing. 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 ENG-1A and ENG-1AH. Classroom instruction integrates writing lab activities. 72 hours lecture and 18 hours laboratory. (TBA option)

37327  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:45AM  TTH  IT108
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37884  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:45AM  TTH  IT110
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37302  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:15PM  08:20PM  MW  IT111
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

**ENG-1AH**

Honors English Composition 4 UNITS

**Prerequisite:** ENG-50 or ENG-80 or qualifying placement level

Limitation on enrollment: Enrollment in the Honors Program

Description: Emphasizes and develops skills in critical reading and academic writing. Reading and writing assignments include exposition, argumentation, and academic research. Students will produce a minimum of 10,000 words of instructor-evaluated writing. 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 ENG-1A and ENG-1AH. Classroom instruction integrates writing lab activities. 72 hours lecture and 18 hours laboratory. (TBA option)

37327  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:45AM  TTH  IT108
     08/26/19  12/14/19  IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50 minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff
ENG-1B
Critical Thinking and Writing 4 UNITS
Prerequisite: ENG-1A or ENG-1AH
Description: Building on the rhetorical skills learned in ENG 1A, students will analyze, interpret, and synthesize diverse texts in order to construct well-supported academic arguments and literary analyses. Composition totaling a minimum of 10,000 words serves to correlate writing and reading activities. Classroom activities integrate with writing lab activities. Student may not receive credit for both ENG-1B and 1BH. 72 hours lecture and 18 hours laboratory, (TBA option)

37328  Last Day to add: 10/29/19
OL 10/21/19  12/14/19
OL 10/21/19  12/14/19
The above section is a short term online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online. Please note the start and end dates.

Instructor: Staff
37342  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 09:40AM 11:45AM TTH WEQW6B
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37334  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 01:00PM 02:15PM MWF HUM102
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37341  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 01:00PM 02:15PM MWF IT110
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37333  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 02:00PM 04:05PM TTH IT110
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

37331  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 02:45PM 04:00PM MWF IT111
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37962  Last Day to add: 09/06/19
HYB 08/26/19  12/14/19 03:00PM 05:05PM MW ERHSB211
08/26/19  12/14/19  ONLINE
08/26/19  12/14/19  ONLINE
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program.

Instructor: Staff
37968  Last Day to add: 09/06/19
HYB 08/26/19  12/14/19 03:00PM 05:05PM TTH ERHSE111
08/26/19  12/14/19  ONLINE
08/26/19  12/14/19  ONLINE
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program.

Instructor: Staff
37330  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 04:15PM 06:20PM MW IT110
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37339  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 04:15PM 06:20PM MW HUM102
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff
37336  Last Day to add: 09/06/19
WE 08/26/19  12/14/19 04:15PM 06:20PM TTH JFX106
08/26/19  12/14/19  IT121
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online
Get important textbook information, including ISBN numbers and pricing, and reserve for in-store pickup or delivery to your home!  https://www.bkstr.com/norcocollegestore/
The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

**Instructor:** Staff

37337  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:15PM  06:20PM  TTH  IT206
08/26/19  12/14/19  IT121

37333  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT108
08/26/19  12/14/19  IT121

**Instructor:** Staff

37340  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  HUM102
08/26/19  12/14/19  IT121

**Instructor:** Staff

37329  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  TTH  JFK106
08/26/19  12/14/19  IT121

**Instructor:** Staff

37338  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  TTH  IT206
08/26/19  12/14/19  IT121

**Instructor:** Staff

37339  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:30PM  03:55PM  TTH  JFK106
08/26/19  12/14/19  IT121

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37340  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  JFK106
08/26/19  12/14/19  IT121

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37339  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:30PM  03:55PM  TTH  JFK106
08/26/19  12/14/19  IT121

The above section is a web-enhanced class. Internet access is required.

**Instructor:** D Mills

37994  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:10PM  05:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37992  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  09:25AM  TTH  IT123
37283  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:30PM  03:55PM  TTH  IT108

The above section is a web-enhanced class. Internet access is required.

**Instructor:** D Mills

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

37354  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:30PM  08:35PM  MW  IT123
ENG-30
Children's Literature 3 UNITS

Prerequisite: ENG-50 or ENG-80 or eligibility for ENG-1A

Description: A general survey of children's literature from early times, with emphasis on contemporary works, including fantasy/science fiction, realistic, multicultural, and historical fiction. Both oral and written assignments are required. 54 hours lecture. (Letter Grade, or Pass/No pass option)

37993 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM 03:55PM TTH IT206

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

ENG-50
Basic English Composition 4 UNITS

Advisory: ESL 55 - Advanced Writing and Grammar

Description: Emphasizes and develops skills in critical reading and academic writing as preparation for college-level composition. Students will produce a minimum of 5,000 words of instructor-evaluated writing. Classroom instruction integrates lab activities. 72 hours lecture and 18 hours laboratory. (Letter Grade only.)

37347 Last Day to add: 09/06/19
WE 08/26/19 12/19/19 11:15AM 12:30PM MWF IT108
08/26/19 12/19/19 11:15AM 12:30PM MWF IT121

The above section is a web-enhanced class and has an 18-hour laboratory requirement to be arranged. In addition to the time spent in class, students are required to attend the Writing Lab in IT 121 for 50-minutes each week, and must use WebAdvisor to schedule these sessions. Required lab attendance begins the first week of the term. See WebAdvisor for available WL-LAB times.

Instructor: Staff

ENG-85
Writing Clinic (English) 0.50 UNITS

Prerequisite: None.

Description: A self-paced, open-entry/open-exit, Writing and Reading Center-based modular course designed for those who need concentrated attention in various areas of grammar, punctuation, and composition. (Non-degree credit course. Pass-No Pass only.)

37358 Last Day to add: 12/05/19
LAB 09/10/19 12/05/19 11:50AM 12:50PM TTH LIBRLRC

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

ENG-91
Academic Support for English 1 2 UNITS

Prerequisite: None

Corequisite: ENG-1A

Description: Limited to students concurrently enrolled in the co-requisite English 1A class. English 91 provides students with additional support for college-level English. This 2-unit class offers additional instruction and practice in reading strategies, writing process, sentence craft, metacognitive reflection, and college success skills. 36 hours lecture. (Non-degree credit course. Pass/No Pass only.)

37911 Last Day to add: 09/08/19
WE 08/28/19 12/04/19 07:20AM 09:35AM W IT111

The above section is a web-enhanced class and is linked to ENG 1A 37891. When you enroll in this class, you are agreeing that you are also enrolling in the linked ENG 1A. ENG 91 is a co-requisite designed for students who want extra class time and instruction to complete ENG 1A in a single term. This section of ENG 91 (2 units) must be taken simultaneously with the linked ENG 1A (4 units) for a total of 6 units.

Instructor: Staff

37363 Last Day to add: 09/06/19
WE 08/26/19 12/19/19 09:15AM 11:05AM W IT206

The above section is designed for the Umoja Community. See the instructor and Umoja counselor before enrolling. The above section is a web-enhanced class and is linked to ENG 1A 37883. When you enroll in this class, you are agreeing that you are also enrolling in the linked ENG 1A. ENG 91 is a co-requisite designed for students who want extra class time and instruction to complete ENG 1A in a single term. This section of ENG 91 (2 units) must be taken simultaneously with the linked ENG 1A (4 units) for a total of 6 units.

Instructor: Staff

37906 Last Day to add: 09/09/19
WE 08/27/19 12/05/19 09:30AM 10:35AM TTH CACT1

The above section is a web-enhanced class and is linked to ENG 1A 37879. When you enroll in this class, you are agreeing that you are also enrolling in the linked ENG 1A. ENG 91 is a support course designed for students who want extra class time and instruction to complete ENG 1A in a single term. This section of ENG 91 (2 units) must be taken simultaneously with the linked ENG 1A (4 units) for a total of 6 units.

Instructor: Staff

37909 Last Day to add: 09/09/19
WE 08/26/19 12/04/19 10:15AM 11:20AM TTH IT110

The above section is a web-enhanced class and is linked to ENG 1A 37310. When you enroll in this class, you are agreeing that you are also enrolling in the linked ENG 1A. ENG 91 is a co-requisite designed for students who want extra class time and instruction to complete ENG 1A in a single term. This section of ENG 91 (2 units) must be taken simultaneously with the linked ENG 1A (4 units) for a total of 6 units.

Instructor: Staff

37364 Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 10:30AM 11:35AM MW CRCRCRUL3

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff

37365 Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 10:30AM 11:35AM MW CRCRCRL609A

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff
ENGLISH AS A SECOND LANGUAGE

ESL-51
Basic Writing and Grammar 4 UNITS
Prerequisite: None
Description: Emphasizes elementary competency in standard written English with a focus on basic writing and grammar skills. Instruction will also include vocabulary and reading skills necessary for success in basic English as a Second Language courses. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

Instructor: L Tougas

ESL-52
Low-intermediate Writing and Grammar 4 UNITS
Prerequisite: ESL-51 or Qualifying placement level on a state-approved placement instrument
Description: Develops competency in standard written English with a continued focus on basic writing and grammar skills. Instruction includes vocabulary and reading skills necessary for success in low-intermediate English as a Second Language courses. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

Instructor: M Shirinian
Prerequisite: Qualifying placement level on a state-approved placement instrument or ESL-52

Description: Increases competency in standard written English with a focus on intermediate and writing grammar skills. Instruction includes vocabulary and reading skills necessary for success in intermediate English as a Second Language courses. 72 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

Instructor: M Shirinian

ESL-54
High-intermediate Writing and Grammar 5 UNITS

Prerequisite: Qualifying placement level on a state-approved placement instrument or ESL-53

Description: Emphasizes competency in standard written English with a focus on high-intermediate grammar and writing skills. Instruction includes an intensive review of vocabulary and reading skills necessary for success in high-intermediate English as a Second Language courses. 90 hours lecture and 18 hours laboratory. (Degree credit course. Letter Grade, or Pass/No Pass Option.)

Instructor: M Shirinian

ESL-55
Advanced Writing and Grammar 5 UNITS

Prerequisite: Qualifying placement level on a state-approved placement instrument or ESL-54

Description: Emphasizes competency in standard written English with a focus on developing paragraphs and essays in preparation for English composition classes. Instruction includes continued development of vocabulary, reading and academic skills necessary for success in college classes. 90 hours lecture and 18 hours laboratory. (Degree credit course. Letter Grade, or Pass/No Pass Option.)

Instructor: M Shirinian

ESL-91
Oral Skills I: Beginning Oral Communication 3 UNITS

Prerequisite: None

Advisory: Concurrent enrollment in ESL 51 or 52

Description: This course emphasizes beginning conversation, pronunciation, and idiomatic skills along with basic listening comprehension. Conversational and idiomatic skills focus on fluent and appropriate use of common words and functional expressions in life skills areas—shopping, food, clothing, money/banking, car/license, travel, medicine. Pronunciation focuses on the articulation of English vowels and consonants and on the development of basic English patterns of stress and intonation. Listening stresses understanding oral instructions and questions, common vocabulary and daily functions in an aural context, main ideas and details in monologues and dialogues. 54 hours lecture and 18 hours laboratory. (Non-degree credit course. Pass/No Pass only.)

Instructor: D Tougas

FRENCH

ENROLLMENT GUIDELINES

FRENCH

1. If you have taken French in high school or in another college or university, you must have official transcripts on file and request evaluation of the course(s) in order to enroll above level 1.

2. If you have acquired knowledge of French outside of a formal educational institution, you must file a matriculation appeal in order to enroll above level 1.

FRE-1
French 1 5 UNITS

Prerequisite: None.

Description: Develops basic skills in listening, reading, speaking, and writing. Emphasis on acquisition of vocabulary, structures, and grammatical patterns necessary for comprehension of native spoken and written French at the beginner level. Includes discussion of French culture and daily life. 90 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

Instructor: L Smith

LIR 109

37372  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 03:00PM 05:05PM M LIBR109
08/26/19 12/14/19 03:00PM 06:10PM M LIBR109
08/26/19 12/14/19 05:10PM 06:00PM W LIBR109

The above section is a web-enhanced class. Internet access is required.

Instructor: L Smith

37373  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM T LIBR110
08/26/19 12/14/19 06:00PM 08:05PM T LIBR110
08/26/19 12/14/19 08:10PM 09:00PM T LIBR110

The above section is a web-enhanced class. Internet access is required.

Instructor: A Smith

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GAME DEVELOPMENT

GAM-21
History of Video Games 3 UNITS
Prerequisite: None
Description: A comprehensive study of the evolution of video games throughout history including arcade games, console games, computer games and mobile applications.
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com.
Instructor: J Coverdale
37375 Last Day to add: 09/06/19

GAME DEVELOPMENT

GAM-22
Game Design Principles 4 UNITS
Prerequisite: None
Description: An introduction to the fundamental techniques, concepts, and vocabulary of game design. Students will design original non-digital prototypes and games, using iteration and playtesting best practices. Topics include formal elements of games, mechanics and dynamics, decision-making, flow states and player psychology, the MDA Framework, the iterative process, and rapid prototyping. 54 hours lecture and 54 hours laboratory.
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: Staff
37376 Last Day to add: 09/06/19

GAM-24
Video Game Prototyping 4 UNITS
Prerequisite: CIS/CSC-5 or GAM-50 or CIS-50
Description: An introduction to the fundamentals of computer game prototyping with an emphasis on scripting. Students will create mockup environments and objects of interest using placeholder assets, apply game rules and interactivity, and demonstrate previsualized game concepts. Topics include layout, possibility space, content integration, scripting, team collaboration, and workflow. Students will create 3D computer game levels using one or more modern game engines. 54 hours lecture and 54 hours laboratory.
WE 08/26/19 12/14/19 02:30PM 05:40PM M STEM115
08/26/19 12/14/19 02:30PM 05:40PM W STEM115
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: M Chapman
37378 Last Day to add: 09/06/19

GAM-35
Introduction to Computer Game Develoment 3 UNITS
Prerequisite: None.
Description: An introduction to computer gaming. Students will explore the job market, career paths and business aspects of gaming professions.
HYB 08/26/19 12/14/19 07:35AM 09:00AM M STEM115
08/26/19 12/14/19 ONLINE
The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.
Instructor: G Marquez
37381 Last Day to add: 09/06/19

GAM-20

LEC 08/26/19 12/14/19 03:00PM 04:25PM TTH CENT955
The above section is web enhanced and restricted to Centennial High School students participating in Norco College’s Dual Enrollment Program. Internet access is required.
Instructor: B Kenney
37382 Last Day to add: DATE
GAM-46
Environment and Vehicle Modeling 3 UNITS
Prerequisite: GAM-81
Description: A comprehensive study of game industry modeling techniques for both hard surface and organic models. Advanced 3D modeling techniques in creating environment and vehicle models with specific limitations on tri/poly count. Topics include Polygonal modeling tools, Subdivision Surface tools, and NURBS (Non Uniform Rational B Splines) modeling tool sets. An introduction to background design and layout as well as shot planning and composition as it applies to storytelling in a game/simulation environment with a focus on creating architectural interiors and exteriors representing houses, buildings and entire worlds contained under a roof. 54 hours lecture and 18 hours laboratory. (TBA option)
OL 08/26/19 12/14/19 08:00AM 09:50AM W STEM115
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 10:00AM 12:00PM F STEM115
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

GAM-50
Introduction to Game Programming 3 UNITS
Prerequisite: None.
Description: A first course in programming for games stressing fundamental programming principles. Computer programming logic is introduced with hands on game development projects using an industry standard game engine. No previous computer programming experience is required. (Same as CS-50)
OL 08/26/19 12/14/19 08:00AM 10:00AM W STEM115
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:00AM W STEM115
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: J Finley

GAM-52
Game Engine Scripting I 3 UNITS
Prerequisite: GAM-50
Description: Introduction to core programming concepts related to game engine scripting. Scripted languages are used in the context of industry standard game development tools to implement game functionality. 54 hours lecture and 18 hours laboratory. (TBA option)
OL 08/26/19 12/14/19 08:00AM 10:00AM W STEM115
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00PM 09:50PM W STEM115
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

GAM-70
Computer Skills for Game Art 2 UNITS
Prerequisite: None.
Description: Introduction to fundamental computer concepts related to typical functions required of a game artist. Understanding computer navigation and peripherals used to input information which is unique to Game Design and Digital Media will be the focus. Standard file management, navigation, storage, and multiple backup techniques for files are taught as well as basic scanning techniques, appropriate use of internet resources, copyright issues and an introduction to graphic file formats. 18 hours lecture and 6 hours laboratory. (TBA option)
OL 08/26/19 12/14/19 08:00AM 09:05PM W STEM115
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:45PM 07:45PM W STEM115
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: R Bourbeau

GAM-71
Perspective for Game and Animation 3 UNITS
Prerequisite: GAM-80
Description: This is a perspective drawing class which focuses on creating believable environments, both interior and exterior, through the proper implementation of correct one point, two point and three point perspective while setting up a dynamic composition. Students learn to draw three-dimensional forms through observation and application of perspective principles. Students learn to conceptualize, create quick sketches and then focus on developing complete perspective drawings. 36 hours lecture and 54 hours laboratory.
OL 08/26/19 12/14/19 07:35AM 09:00AM W STEM115
Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 07:35AM 09:00AM W STEM115
The above section is a hybrid class and has an 18-hour laboratory requirement to be completed online. Computer with Internet access required. See www.opencampus.com.
Instructor: Staff

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GAM-73
Storyboarding for Games 3 UNITS
Prerequisite: GAM-80
Description: Application of strong composition, posing, and camera techniques to tell an engaging story in a video game environment. Students plan interactive scripted events and cut-scenes using beginning level drawing skills and storyboard software. 36 hours lecture and 54 hours laboratory. (TBA option)
37387 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:00AM 11:05AM T STEM115
08/26/19 12/14/19 11:15AM 02:25PM F STEM115
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: T Dunipace

GAM-80
Digital Drawing for Game Art 4 UNITS
Prerequisite: None
Description: Introduction to digital drawing techniques using industry standard software. Topics include usage of digital drawing hardware, digital image manipulation, techniques for digitally painting custom textures, exploration of the elements of art as they apply to games, composition, and perspective, layout design, character design, and concept development. Includes development of observational, motor, and creative skills. Use of layers, layer styles, adjustment layers and blending modes. 54 hours lecture and 54 hours laboratory. (TBA option)
37389 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 09:25AM T STEM125
08/26/19 12/14/19 09:30AM 10:55AM T STEM125
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: G Marquez

GAM-82
Game Rigging and Animation 4 UNITS
Prerequisite: GAM-81
Description: A course that teaches students how to prepare an animation rig accurately and anatomically in a 3D simulation environment. Prepare previously created humanoid and creature 3D models for an animation-ready state using professional production techniques. Applies classic animation principles to objects in a 3D environment. Introduces tools used for 3D animation as well as the best working practices for animating objects and characters. Applies real-life action sequences to characters. Topics include game cycle animation, weight, actions and personality for the character including advanced techniques with key frame animation including incorporating audio as well as dynamic animation to assist the character driven animation. 54 hours lecture and 54 hours laboratory. (TBA option)
37390 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM M STEM125
08/26/19 12/14/19 06:00PM 09:10PM W STEM125
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: T Dunipace

GEG-1
Physical Geography 3 UNITS
Prerequisite: None
Description: The interacting physical processes of air, water, land, and life that impact Earth’s surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture.
37391 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:40AM MW ATEC114
The above section is a web-enhanced class. Internet access is required.
Instructor: R Christov

37392 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 09:25AM T TTH ATEC205
The above section is a web-enhanced class. Internet access is required.
Instructor: S Justice

37393 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:00AM 12:25PM MW ATEC114
The above section is a web-enhanced class. Internet access is required.
Instructor: S Justice

37394 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 05:40PM T TTH ATEC205
The above section is a web-enhanced class. Internet access is required.
Instructor: C Cataldi

GEG-1H
Honors Physical Geography 3 UNITS
Prerequisite: None
Limitation on enrollment: Enrollment in the Honors Program.
Description: The interacting physical processes of air, water, land, and life that impact Earth’s surface. Topics include weather and climate, the water cycle, landforms and plate tectonics, and the characteristics of plant and animal life. Emphasis is on interrelationships among systems and processes and their resulting patterns and distributions. There is a heavy emphasis on maps as descriptive and analytical tools. The honors course offers an enriched experience for accelerated students by limited class size, seminar format, student generated and led discussions and projects, the application of higher level thinking, reading, and writing skills - analysis, synthesis, and evaluation. Students may not receive credit for both GEG-1 and GEG-1H. 54 hours lecture.
37396 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:35AM 09:00AM MW IT208
The above section is a web-enhanced class. Internet access is required.
Instructor: S Justice

WE 08/26/19 12/14/19 06:00PM 09:10PM M STEM125
08/26/19 12/14/19 06:00PM 09:10PM W STEM125
The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.
Instructor: T Dunipace

GEOGRAPHY
GEG-1L
Physical Geography Laboratory  1 UNITS

Prerequisite: None
Corequisite: GEG-1DE or GEG-1H
Description: Practical application of scientific principles through geographically based in-class exercises using a variety of tools, such as maps, photos, and data in various forms. 54 hours laboratory.

GEG-3
World Regional Geog  3 UNITS

Prerequisite: None.
Description: A study of major world regions, emphasizing current characteristics and issues including cultural, economic, political, and environmental conditions.

GUIDANCE

GUI-45
Introduction to College  1 UNITS

Prerequisite: None.
Description: Guidance 45 is designed to introduce academic and occupational programs, college resources and personal factors that contribute to success as a college student. Includes an extensive exploration of Riverside Community College District resources and policies, orientation to college life, student rights and responsibilities, as well as certificates, graduation and transfer requirements. Students will prepare a Student Educational Plan (S.E.P.). Outcomes of higher education will be discussed through the exploration and application of sociological and psychological principles that lead to success in college and in accomplishing goals. As a result of class activities and exploration of factors influencing educational decisions, class members will be able to utilize the information obtained in class to contribute to their college success. 18 hours lecture.

GUI-46
Intro Transfer Process  1 UNITS

Prerequisite: None.
Description: Survey of transfer requirements with hands-on activities through the application process for students transferring to four-year institutions.

GUI-47
Career Exploration and Life Planning  3 UNITS

Prerequisite: None.
Description: In depth career and life planning: topics include extensive exploration of one’s values, interests and abilities; life problem-solving and self-management skills; adult development theory and the changes that occur over the life span; self-assessment including identifying one’s skills and matching personality with work. An intensive career investigation; decision making, goal setting and job search strategies, as well as resume writing and interviewing skills will also be addressed. This course is designed to assist those students considering the transition of a career change or undecided about the selection of a college major. 54 hours lecture.

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online
Get important textbook information, including ISBN numbers and pricing, and reserve for in-store pickup or delivery to your home!  https://www.bkstr.com/norcocollegestore/
37409  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an ONLINE class. Computer Internet access is required.
See www.opencampus.com
Instructor: J Rubino

OL  08/26/19  12/14/19  ONLINE
The above section is an ONLINE Class. Computer with ONLINE internet access required.
See www.opencampus.com
Instructor: M Iliiscupidez

37974  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  09:25AM  MW  JFK106
The above section is restricted to JFK High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff

WE  08/26/19  12/14/19  08:00AM  09:25AM  TTH  JFK106
The above section is restricted to JFK High School students only. The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37420  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  09:25AM  TTH  IT208
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37410  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:15AM  10:40AM  MW  IT127
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37975  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:35AM  11:00AM  TTH  JFK106
The above section is restricted to JFK High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff

37418  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:40AM  11:05AM  TTH  IT106
The above section is for students participating in Varsity Sports. To enroll, please contact the coach. This course will include training and information required for NCAA athletes. This section is a web-enhanced class. Internet access is required.
Instructor: J Midgett

37413  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  10:30AM  10:40PM  F  IT209
The above section is a web-enhanced class. Internet access is required.
Instructor: C Lopez Ediss

37414  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:10AM  12:35PM  MW  IT127
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37987  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:15AM  12:40PM  TTH  IT125
The above section is designed for the Umoja Community. Please see the Umoja Counselor in the Counseling Department prior to enrolling. The section is a web-enhanced class. Internet access is required.
Instructor: A Davis

37988  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  11:15AM  12:40PM  TTH  IT106
The above section is designed for the Umoja Community. Please see the Umoja Counselor in the Counseling Department prior to enrolling. The section is a web-enhanced class. Internet access is required.
Instructor: Staff

37989  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  12:00PM  01:25PM  TTH  IT110
The above section is designed for the Puente Community. Please see the Puente Counselor in the Counseling Department prior to enrolling. The section is a web-enhanced class. Internet access is required.
Instructor: M Jurado-Martinez

37974  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  12:45PM  02:10PM  MW  IT106
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

37986  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:20PM  03:45PM  TTH  JVHS-24
The above section is restricted to Jurupa Valley High School students participating in Norco College’s Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff

37977  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  02:45PM  04:10PM  TTH  LSHS105
The above section is restricted to La Sierra High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff

37973  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  03:00PM  03:55PM  MW  CRHS102
The above section is restricted to Corona High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff

37978  Last Day to add: 09/06/19
HYB  08/26/19  12/14/19  03:00PM  04:25PM  T  ERHSB2112
08/26/19  12/14/19  ONLINE
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College’s Dual Enrollment Program. This section is a hybrid class, Internet access is required. See www.opencampus.com
Instructor: Staff
HEALTH SCIENCE

HES-1
Health Science (same As Bio-35) 3 UNITS
Prerequisite: None
Description: A basic study of various aspects of health including anatomy and physiology of the body, concepts of prevention, practical advises for healthy life style, treatments and cure of major diseases. This course satisfies the California requirement in drug, alcohol, tobacco and nutrition education for teacher certification.

Instructor: S Witmer
37434 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:00AM 11:00AM WEQW4
The above section is a web-enhanced class. Internet access is required.

Instructor: S Wallstrom
37432 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:00PM IT117
The above section is a web-enhanced class. Internet access is required.

Instructor: V Genian
37435 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM 04:30PM IT117
The above section is a web-enhanced class. Internet access is required.

Instructor: T Wallstrom
37438 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM 04:30PM IT117
The above section is a web-enhanced class. Internet access is required.

Instructor: N Corselli
37439 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:10PM 06:10PM IT117
The above section is a web-enhanced class. Internet access is required.

Instructor: T Wallstrom
37440 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:10AM 12:30PM IT101
The above section is a web-enhanced class. Internet access is required.

The above section is intended for students with disabilities. The course is intended to assist students in the areas of college success strategies, disability management, self-advocacy, and navigating academic adjustments. For additional information, please contact the DRC at (951) 372-7070. This section is a web-enhanced section. Internet access is required

Instructor: K Bell
37429 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:30AM 12:55PM WEQW5
The above section is a web-enhanced class. Internet access is required.

Instructor: Y Haro
37424 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 03:25PM TTH IT125
The above section is a web-enhanced class. Internet access is required.

Instructor: R Chacon
37411 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:40PM 09:05PM TH IT208
The above section is a web-enhanced class. Internet access is required.

Instructor: S Alcala
37428 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:25AM TTH ATEC204
The above section is a web-enhanced class. Internet access is required.

Instructor: E Amezola
37425 Last Day to add: DATE
LEC 08/26/19 12/14/19 08:25AM 10:30AM M CRCCCRCUR15
The above course is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff
37427 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:00AM 10:25AM MW IT123
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37940 Last Day to add: DATE
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH IT106
The above section is intended for students with disabilities. The course is intended to assist students in the areas of college success strategies, disability management, self-advocacy, and navigating academic adjustments. For additional information, please contact the DRC at (951) 372-7070. This section is a web-enhanced section. Internet access is required.

Instructor: K Bell
37429 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:30AM 12:55PM MW WEQW5
The above section is a web-enhanced class. Internet access is required.

Instructor: Y Haro
37424 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 03:25PM TTH IT125
The above section is a web-enhanced class. Internet access is required.

Instructor: R Chacon
37412 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM W IT208
The above section is a web-enhanced class. Internet access is required.

Instructor: E Montgomery
37411 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:40PM 09:05PM TH IT208
The above section is a web-enhanced class. Internet access is required.

Instructor: S Alcala
37428 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:25AM TTH ATEC204
The above section is a web-enhanced class. Internet access is required.

Instructor: E Amezola
37425 Last Day to add: DATE
LEC 08/26/19 12/14/19 08:25AM 10:30AM M CRCCCRCUR15
The above course is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff
37427 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:00AM 10:25AM MW IT123
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37940 Last Day to add: DATE
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH IT106
The above section is intended for students with disabilities. The course is intended to assist students in the areas of college success strategies, disability management, self-advocacy, and navigating academic adjustments. For additional information, please contact the DRC at (951) 372-7070. This section is a web-enhanced section. Internet access is required.

Instructor: K Bell
37429 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:30AM 12:55PM MW WEQW5
The above section is a web-enhanced class. Internet access is required.

Instructor: Y Haro
37424 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 03:25PM TTH IT125
The above section is a web-enhanced class. Internet access is required.

Instructor: R Chacon
37426 Last Day to add: DATE
LEC 08/26/19 12/14/19 05:30PM 07:35PM W CRCCCRCL690A
The above course is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff
37421 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:30PM 09:40PM W WEQW4
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

GUI-48
College Success Strat 3 UNITS
Prerequisite: None
Description: This comprehensive course integrates personal growth and values, academic study strategies and critical thinking techniques. Students will obtain skills and personal/interpersonal awareness necessary to succeed in college. 54 hours lecture. (Letter grade only)
HIST-1

History of World Civilizations 1  3 UNITS

Prerequisite: None

Description: A survey of the historical development of global societies, major social, political, and economic ideas and institutions from their origins until the 16th century. Principal areas to be covered are: African civilizations of the Nile and sub-Saharan areas, Mesopotamian civilizations, Greek and Roman Civilizations, Medieval and Reformation Europe, the Indus River, China and Japan. 54 hours lecture.

Instructor: N Corselli

37837  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  TH  WEQW7
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

HISTORY

HIS-6

Political and Social History of the Unit  3 UNITS

Prerequisite: None

Advisory: REA-83 and qualification for ENG-1A

Description: Political, social, and economic development of the United States from precolonial background and colonial foundations to 1877; the evolution of American thought and institutions; principles of national, state, and local government. Students may not receive credit for both HIS-6 and HIS-6H. 54 hours lecture.

Instructor: M Hickerson

37809  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  T  WEQW4
The above section is a web-enhanced class. Internet access is required.

Instructor: M Hickerson

37813  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  W  LIBR110
The above section is a web-enhanced class. Internet access is required.

Instructor: T Knight

37812  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  TH  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: H Vion

HIS-6H

Honors United States History to 1877  3 UNITS

Prerequisite: None

Advisory: REA-83, ENG-50 and qualification for ENG-1A

Limitation on enrollment: Enrollment in Honors Program

Description: Political, social, and economic development of the United States from precolonial background and colonial foundations to 1877; the evolution of American thought and institutions; 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-6 and HIS-6H. 54 hours lecture.

Instructor: S Kyriakos

37449  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required.

Instructor: S Kyriakos

38008  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  09:25AM  TTH  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: T Russell

HIS-7

United States History From 1865  3 UNITS

Prerequisite: None

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

Limitation on enrollment: Enrollment in Honors Program

Description: 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.

Instructor: H Vion

37804  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  M  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: M Hickerson

37807  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  09:15AM  10:40AM  MW  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: M Hickerson

37806  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  04:10PM  05:35PM  TTH  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: T Russell

37808  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  06:00PM  09:10PM  M  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: M Hickerson

37454  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: D Reina

37453  Last Day to add: 09/06/19
OL  08/26/19  12/14/19  ONLINE
The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: C Day

37447  Last Day to add: 09/06/19
WE  08/26/19  12/14/19  08:00AM  11:35AM  F  HUM103
The above section is a web-enhanced class. Internet access is required.

Instructor: H Vion
HIS-34
History of Women in America 3 UNITS
Prerequisite: None
Description: A survey of the political social and cultural institutions which have shaped the role and character of women in America. The historical role of women in the development of the nation, and the ongoing struggle to achieve political, economic, and social equality will be examined. 54 hours lecture.
Instructor: D Reina

HUM-4
Arts and Ideas: Ancient World Through the Late Medieval Period 3 UNITS
Prerequisite: None
Advisory: REA-83 and qualification for ENG-1A
Description: An interdisciplinary study of the cultural movements in art, architecture, literature, music, philosophy, and religion of Western Civilization. The cultural achievements of the ancient world and the middle ages are studied to develop an understanding of their philosophical ideas, values, cultural meaning, artistic form, and contributions to modern thought. Students may not receive credit for both HUM-4 and HUM-4H. 54 hours lecture.
Instructor: Staff

HUMANITIES

HUM-4
Arts and Ideas: Ancient World Through the Late Medieval Period 3 UNITS
Prerequisite: None
Advisory: REA-83 and qualification for ENG-1A
Description: An interdisciplinary study of the cultural movements in art, architecture, literature, music, philosophy, and religion of Western Civilization. The cultural achievements of the ancient world and the middle ages are studied to develop an understanding of their philosophical ideas, values, cultural meaning, artistic form, and contributions to modern thought. Students may not receive credit for both HUM-4 and HUM-4H. 54 hours lecture.
Instructor: Staff

HIS-14
African American History I 3 UNITS
Prerequisite: None
Advisory: REA-83 and qualification for ENG-1A
Description: A selected study of the complex continent from which African Americans came with special emphasis on the historical, political and socio-cultural aspects of African civilizations in Ancient Egypt and the western Sudan; the transformation of the continent and of Africans through the transatlantic slave trade; and a study of the African American experience during their confinement as slaves in British North America and the early national and ante-bellum periods through the Civil War and Emancipation. 54 hours lecture.
Instructor: T Russell
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>HUM-4H</td>
<td>Honors Arts and Ideas:</td>
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<td>09/06/19</td>
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<td>HUM-8</td>
<td>Introduction to Mythology</td>
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<td>HUM-10</td>
<td>World Religions</td>
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<td>HUM-35</td>
<td>Philosophy of Religion</td>
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<td>09/06/19</td>
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</tbody>
</table>

**HUM-4H Honors Arts and Ideas:**

- **Ancient World Through the Late Medieval Period**
- **Prerequisite:** None
- **Advisory:** REA-83 and qualification for ENG-1A
- **Limitation on enrollment:** Enrollment in Honors Program
- **Description:** An interdisciplinary study of the cultural movements in art, architecture, literature, music, philosophy, and religion of Western Civilization. The cultural achievements of the ancient world and the middle ages are studied to develop an understanding of their philosophical ideas, values, cultural meaning, artistic form, and contributions to modern thought. This honors course offers an enriched experience for accelerated students by means of limited class size, seminar format, discussions and projects generated and led by students, a focus on primary texts in translation, and the applications of higher-level thinking and writing skills. Analysis, synthesis, and evaluation. Students may not receive credit for both HUM-4 and HUM-4H. 54 hours lecture.

**Instructor:** Staff

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<th>Course Code</th>
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**HUM-10H Honors World Religions**

- **Prerequisite:** None
- **Advisory:** REA-83 and qualification for English 1A
- **Limitation on enrollment:** Enrollment in Honors Program
- **Description:** Thought and concepts of the major religious systems, including primal religions, extinct religions, Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam. This honors course offers an enriched experience for students through limited class size, seminar format, discussions and projects generated and led by students, a focus on primary texts in translation and the applications of higher level thinking and writing skills. Analysis, synthesis, and evaluation. Students may not receive credit for both HUM-10 and HUM-10H. 54 hours lecture.

**Instructor:** Staff

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**HUM-35 Philosophy of Religion**

- **Prerequisite:** None
- **Advisory:** PHI-10 or PHI-11 and REA-83 and qualification for ENG-1A
- **Description:** An introduction to the examination of religious claims from a philosophical perspective. Emphasis will be placed upon examining the rational justification for various traditional faith claims, and upon examining the relationship between rationalism and faith. The course presumes a basic knowledge of philosophical argumentation. 54 hours lecture.

**Instructor:** Staff

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<td><strong>Instructor:</strong> Staff</td>
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INTERDISCIPLINARY STUDIES

ILA-1
Introduction to Tutor Training 1 UNITS
Prerequisite: None
Advisory: Qualification for ENG-1A
Description: Introduction to tutoring, with an emphasis on tutoring strategies, learning styles, problem solving, and working with diverse student populations. Designed to prepare students to become peer tutors in a variety of subject areas. Tutors develop student-centered, non-intrusive tutoring skills to meet a wide variety of student needs. Topics include theory, practice and ethics of tutoring, interpersonal communications techniques, tutoring diverse student populations, and group tutorial methods and practical field work. 18 hours lecture. (Letter Grade, or Pass/No Pass option.)
Instructor: Staff
37466 Last Day to add: 09/01/19
WE 08/28/19 10/16/19 05:30PM 07:35PM W STEM301
The above section is a short term web-enhanced class. Internet is required. Please note the start and end dates.
Instructor: Staff

ILA-3
Student Resiliency 1 UNITS
Prerequisite: None
Description: This participatory course trains students how to a
37979 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:40AM 07:30AM T CENT957
The above section is restricted to Centennial High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37469 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:40AM 07:30AM W CENT963
The above section is restricted to Centennial High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37473 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:40AM 07:30AM W CENT957
The above section is restricted to Centennial High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37980 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:30AM 08:20AM MW CRHSP8
The above section is restricted to Corona High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37476 Last Day to add: DATE
LEC 08/26/19 12/14/19 07:30AM 08:35AM W ERHSS209
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program.
Instructor: Staff

37470 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:30AM 08:20AM TH JVHSD-24
The above section is restricted to Jurupa Valley High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37467 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:40AM 08:30AM W ERHSS206
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37468 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:40AM 08:30AM W ERHSS208
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37475 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:40AM 08:30AM W ERHSS102
The above section is restricted to Santiago High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37981 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:50AM 08:40AM W HM126
The above section is restricted to Santiago High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37982 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:50AM 08:40AM W HM126
The above section is restricted to Santiago High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37983 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:50AM 08:40AM W HM126
The above section is restricted to Santiago High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
37472 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 03:00PM 03:55PM W NOHSB41
The above section is restricted to Norco High School students participating in Norco College's Dual Enrollment Program. This section is a web-enhanced class. Internet access is required.
Instructor: Staff
JOURNALISM

JOU-7
Mass Communications 3 UNITS
Prerequisite: None.
Advisory: ENG-50 or ENG-80 or qualifying placement into ENG-1A.
Description: Survey of mass communication and the interrelationships of media with society including history, structure, and trends in a digital age. Discussion of theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity. 54 hours lecture.

37477 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM - 03:55PM TTH IT210
The above section is a web-enhanced class. Internet access is required.
Instructor: J Muto

KINESIOLOGY

KIN-4
Nutrition 3 UNITS
Prerequisite: None.
Description: The principles of modern nutrition and its application. The importance of a scientific knowledge of nutrition, specific food nutrients and nutritional controversies. A study of modern convenience foods and their impact on present day diets. 54 hours lecture.

37850 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: Staff

37851 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required.
Instructor: Staff

KIN-10
Introduction to Kinesiology 3 UNITS
Prerequisite: None.
Description: The study of human movement, sub-disciplines in Kinesiology and career opportunities.

37479 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:30PM - 03:55PM MW WEQW4
The above section is a web-enhanced class. Internet access is required.
Instructor: R Aguilar

37480 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM - 06:45PM T WEQW3
The above section is a web-enhanced class. Internet access is required.
Instructor: J Winn

KIN-16
Introduction to Athletic Training 3 UNITS
Prerequisite: None.
Description: Analyzes and applies basic concepts of athletic training with emphasis on care and prevention of athletic injuries.

37481 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 07:00PM - 08:25PM T WEQW3
The above section is a web-enhanced class. Internet access is required.
Instructor: J Winn

KIN-30
First Aid and CPR 3 UNITS
Prerequisite: None.
Description: Earn “National Safety Council Advanced First Aid” and “American Heart Association Healthcare Professional” certificates. First Aid and CPR fees totaling $20.00 will be charged to the student and are not covered by BOGW. Drop deadlines for non-payment apply.

37482 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 11:00AM - 12:25PM MW WEQW3
The above section is a web-enhanced class. Internet access is required.
Instructor: S Witmer
KIN-35
**Foundation for Fitness and Wellness** 3 UNITS

**Prerequisite:** None.

Description: This course will provide students with the ability to make informed choices and to take responsibility for those choices in the areas of fitness, nutrition, and stress management. Emphasis is on the application of health and physical fitness principles. Each student will develop a personalized plan for the overall maintenance of their own wellness. 36 hours lecture and 54 hours laboratory.

Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:40AM M WEQW4
8:00AM 09:50AM W WEQW4
08/26/19 12/14/19 09:15AM 10:40AM MW WEQW8

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-36
**Wellness: Lifestyle Choices** 3 UNITS

**Prerequisite:** None.

Description: Studies the various dimensions of wellness as they relate to living a positive, healthy life.

Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:40AM M WEQW4
8:00AM 09:50AM W WEQW4
08/26/19 12/14/19 09:15AM 10:40AM MW WEQW8

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-38
**Stress Management** 3 UNITS

**Prerequisite:** None.

Description: The nature, physiology, and psychology of stress. Students will explore perceptions, attitudes, beliefs, and lifestyle factors that may be pre-cursors and contributors to distress. Students will also explore a variety of coping strategies and relaxation techniques. The lab portion of this class provides the opportunity for students to practice techniques and develop a personalized stress management program. 45 hours lecture and 27 hours laboratory.

Last Day to add: 09/06/19
WE 08/26/19 11/06/19 08:45AM 10:35AM MW WEQW3
8:45AM 11:55AM MW WEQW2

The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.

Instructor: B Wimer

KIN-37
**Karate, Intermediate** 1 UNITS

**Prerequisite:** None.

Advisory: KIN-A40

Description: This course in intermediate karate is designed for the student wishing to review basic self defense skills and begin work on higher skills, develop intermediate level skills in unarmed self defense, and learn basic skills in kumite (free fighting). 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: D Namekata

KIN-39
**Karate, Beginning** 1 UNITS

**Prerequisite:** None.

Advisory: KIN-A40

Description: This course in beginning karate will develop the basic skills needed for the art of unarmed self-defense. This includes the use of blocking, shifting, punching, striking, and kicking. Karate will also develop speed, grace of movement, self-confidence, poise, mental alertness, strength, endurance, and muscular control. Karate is a physical art and a sport that anyone, irrespective of size, age, or sex, can practice according to his or her own capabilities. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-40
**Hatha Yoga, Beginning** 1 UNITS

**Prerequisite:** None.

Description: Develops physical and mental wellness by exercises for breathing, concentration, flexibility, strength and relaxation.

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 08:00AM 09:25AM TTH WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: F Stewart

KIN-41
**Hatha Yoga, Intermediate** 1 UNITS

**Prerequisite:** None.

Description: This course in intermediate karate is designed for the student wishing to review basic self defense skills and begin work on higher skills, develop intermediate level skills in unarmed self defense, and learn basic skills in kumite (free fighting). 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: L Zank

KIN-46
**Wellness: Lifestyle Choices** 3 UNITS

**Prerequisite:** None.

Description: Studies the various dimensions of wellness as they relate to living a positive, healthy life.

Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:40AM M WEQW4
8:00AM 09:50AM W WEQW4
08/26/19 12/14/19 09:15AM 10:40AM MW WEQW8

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-47
**Foundation for Fitness and Wellness** 3 UNITS

**Prerequisite:** None.

Description: This course will provide students with the ability to make informed choices and to take responsibility for those choices in the areas of fitness, nutrition, and stress management. Emphasis is on the application of health and physical fitness principles. Each student will develop a personalized plan for the overall maintenance of their own wellness. 36 hours lecture and 54 hours laboratory.

Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 10:40AM M WEQW4
8:00AM 09:50AM W WEQW4
08/26/19 12/14/19 09:15AM 10:40AM MW WEQW8

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-48
**Karate, Beginning** 1 UNITS

**Prerequisite:** None.

Advisory: KIN-A40

Description: This course in beginning karate will develop the basic skills needed for the art of unarmed self-defense. This includes the use of blocking, shifting, punching, striking, and kicking. Karate will also develop speed, grace of movement, self-confidence, poise, mental alertness, strength, endurance, and muscular control. Karate is a physical art and a sport that anyone, irrespective of size, age, or sex, can practice according to his or her own capabilities. 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: B Wimer

KIN-49
**Karate, Intermediate** 1 UNITS

**Prerequisite:** None.

Advisory: KIN-A40

Description: This course in intermediate karate is designed for the student wishing to review basic self defense skills and begin work on higher skills, develop intermediate level skills in unarmed self defense, and learn basic skills in kumite (free fighting). 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: D Namekata

KIN-50
**Hatha Yoga, Intermediate** 1 UNITS

**Prerequisite:** None.

Description: This course in intermediate karate is designed for the student wishing to review basic self defense skills and begin work on higher skills, develop intermediate level skills in unarmed self defense, and learn basic skills in kumite (free fighting). 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW2

The above section is a web-enhanced class. Internet access is required.

Instructor: F Stewart
KIN-A47
Hatha Yoga, Intermediate 1 UNITS
Prerequisite: None
Advisory: KIN-A46
Description: This course offers intermediate Hatha yoga exercises to improve students' physical and mental wellness. The yoga exercises will be taught to promote improvement in yoga breathing techniques, concentration, muscular flexibility, strength and endurance, balance and meditation techniques. KIN-A46 and A47 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, or Pass/No Pass option.)
37496 Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 09:40AM 11:05AM TTH WEQW2
The above section is a web-enhanced class. Internet access is required.
Instructor: F Stewart

KIN-A75A
Walking for Fitness: Beginning 1 UNITS
Prerequisite: None
Description: This course is designed for all students with an emphasis on cardiovascular fitness, setting personal fitness goals and understanding the physiological benefits of a walking program. Walking programs will be established to improve cardiorespiratory endurance. KIN-A75A, A75B and A77 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 or Pass/No Pass option.)
37497 Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 08:00AM 09:25AM TTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: B Wimer

KIN-A81A
Physical Fitness, Beginning 1 UNITS
Prerequisite: None
Description: This course is designed to give the student an overview of the basic concepts that affect total fitness. Personalized exercise programs in cardiovascular endurance, muscular strength, muscular endurance, and flexibility will be developed. KIN-A81A and A81B 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, or Pass/No Pass option.)
37498 Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 06:00PM 07:25PM TTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

KIN-A81B
Physical Fitness, Intermediate 1 UNITS
Prerequisite: None.
Description: Provides concepts for total fitness and develops personalized exercise programs for cardiovascular endurance, strength and flexibility.
3.50 Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 04:15PM 05:40PM TTH WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff
3.51 Last Day to add: 09/06/19
LAB 08/26/19 12/14/19 06:00PM 07:25PM MW WEQW8
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

KIN-V01
Cross Country, Varsity, Men 3 UNITS
Prerequisite: None.
Description: Limitation on enrollment: Retention based on successful tryout.
Description: This course is designed to serve as an opportunity for cross country runners to improve skills, knowledge and strategy of the sport of cross country. The program will consist of a highly organized program of lecture, and individual and group practice sessions to prepare students for intercollegiate competition in cross country. Repeating the course provides the student an opportunity for additional skill and competency development. May be taken a total of four times. 175 hours laboratory. (Letter Grade, or Pass/No Pass option.)
38012 Last Day to add: 09/26/19
LAB 08/26/19 12/14/19 04:00PM 05:30PM MWFTH SOC1
The above section is Varsity Men’s Cross Country. To enroll please contact the coach.
Instructor: Staff

KIN-V10
Soccer, Varsity Men 3 UNITS
Prerequisite: None.
Description: This course prepares the student athletes to practice and compete at the intercollegiate level in soccer. Athletes will demonstrate proficiency and knowledge of advanced principles of offensive and defensive team concepts. Student athletes will participate in a physical conditioning program designed to prepare them for intercollegiate competition in soccer. Repeating this course provides the student an opportunity for additional skill and competency development. May be taken a total of four times. 175 hours laboratory. (Letter Grade, or Pass/No Pass option.)
3.52 Last Day to add: 09/26/19
LAB 08/26/19 12/14/19 08:00AM 09:30AM MWFTH SOCR2
The above section is Varsity Men’s Soccer. To enroll please contact the coach.
Instructor: D Rea

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online
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<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>KIN-V12</td>
<td>Cross Country, Varsity, Women</td>
<td>3</td>
<td>None</td>
<td>Limitation on enrollment: Retention based on successful tryout. Description: Prepares student</td>
<td>B Kuderman</td>
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<td>athletes to practice and compete at the intercollegiate level in soccer. Athletes will</td>
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<td>concepts. Study athletes will participate in a physical conditioning program designed to</td>
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<td>prepare them for intercollegiate competition in soccer. Repeating this course provides the</td>
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<td>student an opportunity for additional skill and competency development. May be taken a total</td>
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<td>of four times. 175 hours laboratory. (Letter Grade, or Pass/No Pass option.)</td>
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<tr>
<td>KIN-V25</td>
<td>Soccer, Varsity, Women</td>
<td>3</td>
<td>None</td>
<td>Limitation on enrollment (e.g. Performance tryout or audition): Retention based on successful</td>
<td>Staff</td>
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<td>tryout. Description: Advanced conditioning principles for the design and implementation of an</td>
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<td>in-season training program during varsity sport competition. Subsequent enrollment in</td>
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<td>additional semesters will provide the student an opportunity for additional skill competency</td>
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<td>development. May be taken a total of four times. 54 hours laboratory. (Letter Grade, or Pass/</td>
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<td>No Pass option.)</td>
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<tr>
<td>LIB-1</td>
<td>Introduction to Information Literacy</td>
<td>1</td>
<td>None</td>
<td>Limitation on enrollment: Retention based on successful tryout. Description: Prepares student</td>
<td>Staff</td>
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<tr>
<td>MAG-44</td>
<td>Principles of Management</td>
<td>3</td>
<td>None</td>
<td>Limitation on enrollment: Retention based on successful tryout. Description: For those who</td>
<td>Staff</td>
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<td>are in management, preparing for a potential promotion or interested in the management process.</td>
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<td>Includes the primary functions of planning, organizing, controlling, and leading as well as</td>
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<td>related skills such as team development, motivation and communication, techniques, and quality</td>
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<td>management. Also, social responsibility and a global perspective are emphasized. 54 hours</td>
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<td>lecture. (Letter Grade, or Pass/No Pass option.)</td>
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<td>MAG-47</td>
<td>Applied Business, Management Ethics</td>
<td>3</td>
<td>None</td>
<td>Limitation on enrollment: Retention based on successful tryout. Description: An examination</td>
<td>Staff</td>
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<td>of ethical concerns including corporate, personal, global, environmental, public related issues</td>
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<td>ethics audits, and corporate social responsibility. (Same as BUS-47)</td>
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LIBRARY

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<td>HYB-1</td>
<td>Principles of Management</td>
<td>3</td>
<td>None</td>
<td>09/26/19</td>
<td>Staff</td>
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<td>Introduction to Information Literacy</td>
<td>1</td>
<td>None</td>
<td>10/29/19</td>
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MANUFACTURING TECHNOLOGY

MAN-35
Computer Aided Manufacturing-Mastercam  5 UNITS
Prerequisite: None
Advisory: CIS-1A
Description: A course in computer-aided manufacture of parts and assemblies using MasterCam software. Applications of Numerical Control (NC) programming in machine processes with a focus on turning centers and milling operations. This course includes beginning and advanced programming. 63 hours lecture and 81 hours laboratory. (Letter Grade, or Pass/No Pass option.)
37513  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:45PM 07:35PM TTH CACT2
08/26/19 12/14/19 07:40PM 10:00PM TTH CACT2
The above section is a web-enhanced class. Internet access is required.
Instructor: P Van Hulle

MAN-55
Occupational Safety and Health Administration (OSHA) Standards for General Industry  1 UNITS
Prerequisite: None
Description: 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 or 30 hour general industry or construction industry training completion card. 36 hours lecture. (Letter Grade, or Pass/No Pass option.)
37997  Last Day to add: 10/29/19
OL 10/21/19 12/14/19 ONLINE
The above section is a short term online class. Please note the start and end dates. Computer with Internet access required. See www.opencampus.com.
Instructor: P Van Hulle

MAN-57
CNC Program Writing  3 UNITS
Prerequisite: None
Description: 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.
37519  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 06:50PM MW CACT2
08/26/19 12/14/19 07:00PM 08:25PM MW CACT2
The above section is a web-enhanced class. Internet access is required.
Instructor: P Van Hulle

MAN-60
Hydraulic and Pneumatic Systems  3 UNITS
Prerequisite: None
Advisory: ENE-60 or MAT-52
Description: Basics of hydraulic and pneumatic systems including physical properties of liquids under pressure. Pumps, motors, accumulators, valves and drive cylinders are studied. The design and assembly of both high and low pressure fluid control systems from standard components is experienced. Applications of fluids in robotic and industrial equipment systems are presented. 40 hours lecture and 72 hours laboratory. (Letter Grade, or Pass/No Pass option.)
37917  Last Day to add: 10/26/19
WE 10/22/19 12/12/19 09:35AM 12:00PM TTH IT124
10/22/19 12/12/19 12:30PM 05:00PM TTH IT124
The above section is a short term web-enhanced class. Internet access is required. Please note start and end dates.
Instructor: Staff
MAN-64
Programmable Logic Controllers 3 UNITS
Prerequisite: None
Advisory: ELE-10 or ELE-11
Description: Fundamentals of programmable logic controllers, with an emphasis on introductory programming of PLCs. Problem analysis with solutions that integrate programming formats, auxiliary commands and functions, common programming languages, and popular software programs used with PLCs. Installation, maintenance, troubleshooting and repair are inherent components. 36 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.) (Same as ELE-64)
37520 Last Day to add: 09/02/19
WE 08/27/19 10/17/19 09:45AM 11:55AM TTH IT124
08/27/19 10/17/19 12:30PM 03:40PM TTH IT124
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: P Van Hulle

MAN-72
Commercial and Industrial Electrical Wiring 4 UNITS
Prerequisite: None
Description: Wiring of commercial and industrial buildings including equipment grounding, service grounding, power distribution, conduit types, metal, plastic, flexible, bending and supporting, light distribution and blueprint reading. Hands-on lab experiences are selected to reinforce key theories. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option)
37935 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:30AM 11:40AM F ATEC119
08/26/19 12/14/19 12:25PM 03:35PM F ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: T Childers

MAN-73
Electric Motors and Transformers 4 UNITS
Prerequisite: None
Description: Enables electricians to understand and effectively wire most standard DC motors, servos and steppers, as well as many AC motors, including single and poly-phase units, from fractional horsepower to multi-horsepower, industrial giants. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option)
37933 Last Day to add: 09/06/19
WE 08/31/19 12/14/19 08:00AM 11:10AM S ATEC119
08/31/19 12/14/19 11:30AM 02:40PM S ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: T Childers

MAN-74
Industrial Wiring and Controls (same as ELC/ELE-74) 4 UNITS
Prerequisite: None
Description: 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. (Letter Grade or Pass/No Pass option)
37918 Last Day to add: 10/27/19
WE 10/21/19 12/13/19 11:15AM 01:30PM MW IT124
10/21/19 12/13/19 12:00PM 02:15PM F IT124
10/21/19 12/13/19 02:15PM 04:30PM MW IT124
10/21/19 12/13/19 02:30PM 04:45PM F IT124
The above section is a short term web-enhanced class. Internet access is required. Please note start and end dates.
Instructor: Staff

MAN-77
Electrical Theory (Same as ELC/ELE-77) 3 UNITS
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, Kirchhoff’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.
37900 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 06:50PM M ATEC119
08/26/19 12/14/19 06:00PM 07:05PM W ATEC119
08/26/19 12/14/19 07:15PM 08:40PM MW ATEC119
The above section is a web-enhanced class. Internet access is required.
Instructor: K Rad
### NORCO COLLEGE

#### MATH

To enroll in a Math 5, 12, 25, or 36 section that is paired with a Math 105, 112, 125, or 136 course, select one of the pairs below and use the course section numbers to sign up. Each of the Math 5, 12, 25 and 36 sections below is linked to a specific section of Math 105, 112, 125, or 136 and students must enroll in both.

Instructors for each of the sections are listed in the schedule of classes section with the complete list of all Math courses.

<table>
<thead>
<tr>
<th>MAT-5</th>
<th>37854 M/W/F 11:00 am - 12:15 pm</th>
<th>MAT-12</th>
<th>37876 M/W/F 4:20 - 5:45 pm</th>
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</thead>
<tbody>
<tr>
<td>MAT-105</td>
<td>37857 M/W 9:45 - 10:55 am</td>
<td>MAT-112</td>
<td>37877 M/W 3:05 - 4:15 pm</td>
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<th>MAT-12</th>
<th>37866 M/W/F 8:55 - 10:10 am</th>
<th>MAT-12</th>
<th>37872 M/W 6:00 - 8:35 pm</th>
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<tbody>
<tr>
<td>MAT-112</td>
<td>37899 M/W 7:40 - 8:50 am</td>
<td>MAT-112</td>
<td>37873 Th 6:00 - 8:05 pm</td>
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<tr>
<th>MAT-12</th>
<th>37868 T 10:35 am - 12:40 pm</th>
<th>MAT-25</th>
<th>37858 T/Th 11:25 am - 12:50 pm</th>
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<tbody>
<tr>
<td>MAT-112</td>
<td>37869 Th 10:35 am - 12:40 pm</td>
<td>MAT-125</td>
<td>37859 T/Th 10:15 - 11:20 am</td>
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<tr>
<th>MAT-12</th>
<th>37870 M/W 1:05 - 3:10 pm</th>
<th>MAT-25</th>
<th>37860 T/Th 3:10 pm - 4:35 pm</th>
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<tbody>
<tr>
<td>MAT-112</td>
<td>37871 F 1:05 - 3:10 pm</td>
<td>MAT-125</td>
<td>37861 T/Th 2:00 - 3:05 pm</td>
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<tr>
<th>MAT-12</th>
<th>37874 M/W/F 1:40 - 2:55 pm</th>
<th>MAT-36</th>
<th>37862 M/W/F 11:35 am - 12:50 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT-112</td>
<td>37875 M/W 12:25 pm - 1:35 pm</td>
<td>MAT-136</td>
<td>37863 M/W 10:20 - 11:30 am</td>
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<tr>
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<th>37864 M/W/F 4:35 - 5:50 pm</th>
<th>MAT-136</th>
<th>37865 M/W 3:20 - 4:30 pm</th>
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<td>Staff</td>
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</table>
MATHEMATICS

MAT-1A
Calculus I 4 UNITS

Prerequisite: MAT-10 or MAT-23 or qualifying placement level.

Description: Functions, limits, continuity, techniques and applications of differentiation, the Fundamental Theorem of Calculus, and basic integration. 72 hours lecture and 18 hours laboratory. (Letter Grade or Pass/No Pass option)

37553  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:30AM MWF WEQW4
08/26/19 12/14/19 09:05AM F WEQW5

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: Staff

37552  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:40AM 12:10PM T WEQW6A
08/26/19 12/14/19 09:40AM 11:10AM TH WEQW6A
08/26/19 12/14/19 11:20AM 12:10PM TH WEQW6A

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: Staff

37959  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:50PM MW JFK106
08/26/19 12/14/19 12:45PM 01:35PM F JFK106

The above section is restricted to JFK High School students participating in Norco College’s STEM Dual Enrollment Program.

Instructor: Staff

37550  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 04:30PM T WEQW4
08/26/19 12/14/19 02:00PM 03:30PM TH WEQW4
08/26/19 12/14/19 03:40PM 04:30PM TH WEQW4

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: Staff

37555  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 04:30PM T IT109
08/26/19 12/14/19 02:00PM 03:30PM TH IT109
08/26/19 12/14/19 03:40PM 04:30PM TH IT109

The above section is a web-enhanced class. Internet access is required. Designated laboratory hours are included in the meeting times for this class.

Instructor: Staff

NOTES:
1. Transfer-level courses are in a rose-colored box.
2. Non-transfer courses are in a light gray box.
3. Courses in green ovals are concurrent support courses that can be taken only with its corresponding transfer-level course.
4. Some student qualify to take the transfer-level course without support.

*Indicates UC/CSU transferable course.
**Indicates CSU transferable only.
***Indicates Associates Degree Applicable only.

Note: All transfer-level courses are also Associates Degree Applicable.
MAT-1C

Calculus III 4 UNITS

Prerequisite: MAT-1B

Description: Vectors in a plane and in space, vector functions, calculus on functions of multiple variables, partial derivatives, multiple integrals, line and surface integrals, Green’s theorem, Stokes’ theorem, Divergence theorem, and elementary applications to the physical and life sciences. 72 hours lecture. 18 hours lab.

Instructor: Staff

MAT-1B

Calculus II 4 UNITS

Prerequisite: MAT-1A

Description: Techniques of integration, applications of integration, improper integrals, parametric equations, polar coordinates, infinite sequences and series. 72 hours lecture and 18 hours laboratory. (Letter Grade, or Pass/No Pass option.)

Instructor: Staff

MAT-2

Differential Equations 4 UNITS

Prerequisite: MAT-1B

Description: This is a course in differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exists, and techniques for obtaining solutions, including linear first and second order differential equations, series solutions, Laplace transforms, linear systems, and elementary applications to the physical and biological sciences. 72 hours lecture. (Letter Grade, or Pass/No Pass option.)

Instructor: Staff

Instructor: Staff
MAT-3
Linear Algebra 3 UNITS
Prerequisite: MAT-1B
Description: This course examines elementary vector space concepts and geometric interpretations and develops the techniques and theory to solve and classify systems of linear equations. Solution techniques include Gaussian and Gauss-Jordan elimination, Cramer’s rule and inverse matrices. Investigates the properties of vectors in two, three and finite dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as determinants, linear independence, bases and dimension of a vector space, linear transformation and their matrix representations, inner products, norms, orthogonality, eigenvalues, eigenvectors, and eigenspaces. Selected applications of linear algebra are included. 54 hours lecture. (Letter Grade or Pass/No Pass option.)
Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:25AM 12:50PM MW WEQW4

MAT-5
Calculus for Business and Life Science 4 UNITS
Prerequisite: MAT-35
Description: A study of the techniques of calculus for majors in business, business administration, life and social sciences. Emphasis on problem solving and applications. Topics include: functions, graphs, limits, derivatives, integrals, exponential and logarithmic functions. 72 hours lecture. (Letter Grade or Pass/No Pass option.)
Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:00AM 12:15PM ATEC211

MAT-10
Precalculus 5 UNITS
Prerequisite: MAT-36 or qualifying placement level
Description: Preparation for calculus: Polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates, sequences, and series. Students cannot receive credit for MAT 10 if they have already received credit for MAT 23. 90 hours lecture. (Letter Grade or Pass/No Pass option)
Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:50AM MW WEQW6A

MAT-11
College Algebra 4 UNITS
Prerequisite: MAT-35 or qualifying placement level
Description: This course is intended for students majoring in Liberal Arts and Humanities. The topics covered in this course include polynomial, radical, rational, absolute value, exponential and logarithmic functions; systems of equations; polynomial equations; permutations and combinations; analytic geometry; and linear programming. 72 hours lecture. (Letter Grade or Pass/No Pass option)
Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:20AM 09:25AM TTH LIBR108

Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 06:20PM TTH LIBR108

Instructor: Staff
Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:45PM 05:00PM TTH ATEC204
MAT-12
Statistics

Prerequisite: MAT-35 or MAT-37 or MAT-43 or qualifying placement level.

Description: A comprehensive study of measures of central tendency and variation, correlation and linear regression, probability, the normal distribution, the t-distribution, the chi-square distribution, estimation, testing of hypotheses, analysis of variance, and the application of statistical software to data, including the interpretation of the relevance of the statistical findings. Applications using data from business, education, health science, life science, psychology, and the social sciences will be included. 72 hours lecture. (Letter Grade, or Pass/No Pass option.)

Instructor: Staff
37542 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. In addition to the online lecture students are required to attend campus for proctored exams on the following dates: one day between 10/15 to 10/19 and another day between 12/10 and 12/14.

Instructor: Staff
37543 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. In addition to the online lecture students are required to attend campus for proctored exams on the following dates: one day between 10/15 to 10/19 and another day between 12/10 and 12/14.

Instructor: Staff
37548 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE
The above section is an online class. Computer with Internet access required.
See www.opencampus.com. In addition to the online lecture students are required to attend campus for proctored exams on the following dates: one day between 10/15 to 10/19 and another day between 12/10 and 12/14.

Instructor: Staff
37541 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:20AM 09:25AM TTH ATEC211
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37535 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:45AM 09:00AM MWF STEM201
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37533 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 08:00AM 10:30AM M IT109
08/26/19 12/14/19 ONLINE
The above section is a hybrid class. Computer with Internet access required.

Instructor: Staff
37534 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 08:00AM 10:30AM W IT109
08/26/19 12/14/19 ONLINE
The above section is a hybrid class. Computer with Internet access required.

Instructor: Staff
37866 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:55AM 10:10AM MWF LIBR108
Enrollment in the above class requires first enrolling in MAT-112-37867. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37546 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:30AM MWF STEM201
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37688 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 10:35AM 12:40PM T LIBR108
08/26/19 12/14/19 ONLINE
Enrollment in the above class requires first enrolling in MAT-112-37869. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37538 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:30PM MWF WEQW6A
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37539 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:30PM MWF WEQW7
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37545 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 01:00PM 02:15PM MWF ATEC210
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37870 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 01:05PM 03:10PM MW LIBR108
Enrollment in the above class requires first enrolling in MAT-112-37871. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37874 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 01:40PM 02:55PM MWF ATEC211
Enrollment in the above class requires first enrolling in MAT-112-37875. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37536 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:00PM 04:05PM TTH WEQW5
The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
37957 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 03:00PM 05:05PM MW HM126
The above section is restricted to Centennial High School students participating in Norco College’s Dual Enrollment Program.

Instructor: Staff
37549 Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 03:00PM 05:05PM TTH ERHSC211
The above section is restricted to Eleanor Roosevelt High School students participating in Norco College’s Dual Enrollment Program.

Instructor: Staff
The above section is restricted to Norco High School students participating in Norco College’s Dual Enrollment Program.

Instructor: Staff

37547 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 05:30PM MWF IT109

MAT-125

Prerequisite: MAT-112

Description: Mathematics for the Liberal Arts Student 3 UNITS

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37540 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 06:20PM TTH WEQW5

MAT-21

Description: The concepts introduced in elementary algebra are presented again, but in greater depth. In addition to basic algebraic operations and graphing, students are introduced to functions, inverse functions, exponential and logarithmic functions, complex numbers, conic sections, nonlinear systems of equations, and sequences and series. 90 hours lecture. (Letter Grade or Pass/No Pass option)

Prerequisite: MAT-112

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37569 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 07:00AM 09:30AM TTH WEQV6A

MAT-35

Intermediate Algebra 5 UNITS

Prerequisite: MAT-52

Description: The concepts introduced in elementary algebra are presented again, but in greater depth. In addition to basic algebraic operations and graphing, students are introduced to functions, inverse functions, exponential and logarithmic functions, complex numbers, conic sections, nonlinear systems of equations, and sequences and series. 90 hours lecture. (Letter Grade or Pass/No Pass option)

Prerequisite: MAT-52

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37574 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 11:10AM 12:35PM MW ATEC210

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

37580 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 02:30PM 03:55PM TTH ATEC210

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

37564 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:10PM MW IT109

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37857 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 01:15PM 02:40PM TTH WEQV6

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37862 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:30PM 07:05PM TTH WEQV6

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37860 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 03:10PM 04:35PM TTH ATEC211

Enrollment in the above class requires first enrolling in MAT-125-37861. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37876 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:20PM 05:45PM MWF ATEC211

Enrollment in the above class requires first enrolling in MAT-112-37877. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37841 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:30PM 09:45PM T ATEC211

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37872 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 08:35PM MW LIBR108

Enrollment in the above class requires first enrolling in MAT-112-37873. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37537 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:15PM 08:20PM MW STEM201

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37544 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:30PM 08:35PM TTH WEQV5

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MAT-25

Mathematics for the Liberal Arts Student 3 UNITS

Prerequisite: MAT-35

Description: 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.

Prerequisite: MAT-35

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37858 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:25AM 12:50PM TTH ATEC211

Enrollment in the above class requires first enrolling in MAT-125-37859. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37861 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 05:30PM 07:55PM TTH WEQV7

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37575 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 09:15AM 10:30AM MWF WEQV7

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37574 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 11:10AM 12:35PM MW ATEC210

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

37580 Last Day to add: 09/06/19
HYB 08/26/19 12/14/19 02:30PM 03:55PM TTH ATEC210

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

37568 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 05:50PM MWF WEQV4

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37564 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:10PM MW IT109

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37860 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 03:10PM 04:35PM TTH ATEC211

Enrollment in the above class requires first enrolling in MAT-125-37861. The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

37560 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 02:15PM 03:40PM MWF LIBR108

The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

37568 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 04:15PM 05:50PM MWF WEQV4

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
MAT-36
Trigonometry
4 UNITS
Prerequisite: MAT-35 and MAT-53 OR Appropriate placement.
Description: The study of trigonometric functions, their inverses and their graphs; identities and proofs related to trigonometric expressions; solving trigonometric equations; solving right triangles; solving oblique triangles using the law of sines and cosines; polar coordinates; complex numbers; introduction to vectors and elements of geometry important to the foundation of trigonometry. 72 hours lecture. (Letter Grade or Pass/No Pass option)

ORS 37587 Last Day to add: 09/06/19
OL 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com. In addition to the online lecture students are required to attend campus for proctored exams on the following dates: one day between 10/15 to 10/19 and another day between 12/10 and 12/14.

Instructor: Staff

MAT-42
Algebra for Statistics and Liberal Arts
6 UNITS
Prerequisite: MAT-64 or MAT-65 or MAT-90F
Course Credit Recommendation: Non-Degree Credit
Description: An Algebra for Statistics and Liberal Arts course designed to enable students to develop conceptual understanding and problem solving competence as preparation for college level statistical reasoning and liberal arts level math. This course integrates numeracy; proportional, algebraic and statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Emphasis is placed on modeling and problem solving, with techniques and manipulations covered in context. Throughout the course, Math success content will be integrated with mathematical topics. Credit earned does not count toward any degree, nor does it transfer. 108 hours lecture.

ORS 37591 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:25AM 10:30AM MWF ATEC204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MAT-53
College Geometry
3 UNITS
Prerequisite: MAT-52 or qualifying placement.
Description: A course covering the study of plane geometry and three dimensional figures. These topics include angles, triangles, quadrilaterals, circles and solids, their formulas for measuring such figures, including perimeter, area and volume. Students create proofs of geometric concepts using postulates and theorems associated with geometric objects and their characteristics. 54 hours lecture.

ORS 37592 Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 12:30PM 02:35PM MWF CRCRCUL3

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff

MAT-54
Number Sense, Development of Early Number Concepts
3 UNITS
Prerequisite: MAT-52 or qualifying placement.
Description: A course in number sense, development of early number concepts, and the properties of numerals. The course will also include the use of technology to develop the mathematical skills and problem solving strategies appropriate for college level statistical reasoning and liberal arts level math. This course integrates numeracy; proportional, algebraic and statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Credit earned does not count toward any degree, nor does it transfer. 54 hours lecture.

ORS 37593 Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 12:30PM 02:35PM MWF CRCRCUL3

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff

MAT-64
Algebra for Statistics and Liberal Arts
6 UNITS
Prerequisite: MAT-64 or MAT-65 or MAT-90F
Course Credit Recommendation: Non-Degree Credit
Description: An Algebra for Statistics and Liberal Arts course designed to enable students to develop conceptual understanding and problem solving competence as preparation for college level statistical reasoning and liberal arts level math. This course integrates numeracy; proportional, algebraic and statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Emphasis is placed on modeling and problem solving, with techniques and manipulations covered in context. Throughout the course, Math success content will be integrated with mathematical topics. Credit earned does not count toward any degree, nor does it transfer. 108 hours lecture.

ORS 37594 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:25AM 10:30AM MWF ATEC204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MAT-65
Algebra for Statistics and Liberal Arts
6 UNITS
Prerequisite: MAT-64 or MAT-65 or MAT-90F
Course Credit Recommendation: Non-Degree Credit
Description: An Algebra for Statistics and Liberal Arts course designed to enable students to develop conceptual understanding and problem solving competence as preparation for college level statistical reasoning and liberal arts level math. This course integrates numeracy; proportional, algebraic and statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Emphasis is placed on modeling and problem solving, with techniques and manipulations covered in context. Throughout the course, Math success content will be integrated with mathematical topics. Credit earned does not count toward any degree, nor does it transfer. 108 hours lecture.

ORS 37595 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:25AM 10:30AM MWF ATEC204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MAT-90F
Math Success Content
Non-Degree Credit
Description: This course is the non-degree credit course. Students earning a non-degree credit will not satisfy any course requirements for a degree. This course integrates numeracy; proportional, algebraic and statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Credit earned does not count toward any degree, nor does it transfer. 108 hours lecture.

ORS 37597 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:25AM 10:30AM MWF ATEC204

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

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Enrolling in the above course will require enrolling in MAT-12-37866. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

**MAT-105**  
**Corequisite Support for Math 5**  
2 UNITS  
**Prerequisite:** Appropriate Placement  
**Corequisite:** MAT-5  
Description: A concurrent co-requisite course containing geometry and algebra concepts designed to support students in Calculus for Business and Life Science. Topics include a review of skills developed in geometry and intermediate algebra: area and volume, factoring, graphing, operations on rational and radical expressions, linear, exponential and logarithmic expressions and equations, functions including composition and inverses, and an in-depth focus on linear and quadratic functions. Topics are taught strategically throughout the semester to provide a "just in time" instruction of skills needed to master concepts in MAT 5 as they arise in that course. A diverse approach to problem solving processes and enhancement of study strategies will prepare the student for later university courses.

36 hours lecture. (Pass/No Pass.)

37857  
Last Day to add: 09/13/19

WE 08/26/19 11/27/19 09:45AM 10:55AM MW ATEC211

Enrolling in the above course will require enrolling in MAT-5-37854. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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**MAT-112**  
**Corequisite Support for Math 12**  
2 UNITS  
**Prerequisite:** Appropriate Placement  
**Corequisite:** MAT-12  
Description: A concurrent corequisite course containing arithmetic and algebraic concepts designed to support students in Statistics. Topics include a review of skills developed in algebra: order of operations, scientific notation, conversion between fractions, decimals, and percents, solving linear equations, and using the symbols, notation, and vocabulary of algebra. Topics are taught strategically throughout the semester to provide a "just in time" instruction of skills needed to master concepts in MAT-12 as they arise in that course. A diverse approach to problem solving processes and enhancement of study strategies will prepare the student for later university courses.

36 hours lecture. (Pass/No Pass.)

37899  
Last Day to add: 09/13/19

WE 08/26/19 11/27/19 07:40AM 08:50AM MW LIBR108

Enrolling in the above course will require enrolling in MAT-12-37866. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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Enrolling in the above course will require enrolling in MAT-12-37870. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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Enrolling in the above course will require enrolling in MAT-12-37872. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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**MAT-125**  
**Corequisite Support for Mat-25**  
2 UNITS  
**Prerequisite:** Appropriate Placement  
**Corequisite:** MAT-25  
Description: A concurrent corequisite course containing algebra concepts designed to support the students taking MAT-25 (Mathematics for Liberal Arts Students). Topics include a review of skills from an elementary and intermediate algebra course: Rounding integer values, translating phrases into mathematical expressions, solving problems using percent and decimals, evaluating expressions containing exponents, solving linear equations, applying the four basic operations to real numbers, graphing and writing linear equations using slope and y-intercept, and simplifying expressions using order of operations. Topics are taught strategically throughout the semester to provide "just in time" instruction of skills needed to master concepts in MAT 25 as they arise in that course. A diverse approach to problem solving processes and enhancement of study strategies will prepare the student for later university courses.

36 hours lecture. (Pass//No pass)

37859  
Last Day to add: 09/09/19

WE 08/27/19 11/26/19 10:15AM 11:20AM TTH ATEC211

Enrolling in the above course will require enrolling in MAT-MAT-25-37858. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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Enrolling in the above course will require enrolling in MAT-25-37860. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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### MAT-136

**Corequisite Support for Mat-36**  
2 UNITS

**Prerequisite:** Appropriate Placement

**Corequisite:** MAT-36

Description: A concurrent corequisite course containing algebra concepts designed to support students in Trigonometry. Topics include a review of skills developed in intermediate algebra: factoring, graphing linear and quadratic functions, operations on rational and radical expressions, linear and quadratic expressions and equations, and an in-depth focus on operations on functions, including composition and inverses. Topics are taught strategically throughout the semester to provide a “just in time” instruction of skills needed to master concepts in MAT-36 as they arise in that course. A diverse approach to problem solving processes and enhancement of study strategies will prepare the student for later university courses. 36 hours lecture. (Pass/No Pass.)

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Staff</th>
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*Last Day to add: 09/13/19*

WE 08/26/19 11/27/19 10:20AM 11:30AM MW LIBR108

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

### MUSIC INDUSTRY STUDIES

#### MIS-1A

**Beginning Performance Techniques For Studio Recording**  
2 UNITS

**Prerequisite:** None  
Limitation on enrollment: Audition on or before the first class meeting

Description: Introduction to practical performance techniques for the recording studio. Students will have the opportunity to participate in the planning process of a recording session utilizing techniques such as song formation, microphone technique, mixing and production. The class will culminate in a CD recording. This class is appropriate for vocalists and instrumentalists. 108 hours laboratory.

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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#### MIS-1B

**Intermediate Performance Techniques For Studio Recording**  
2 UNITS

**Prerequisite:** MIS-1A

Description: Continuation of the skills studied in MIS-1A focusing on song collaboration, organization of vocals and instruments needed to record. Students will have the opportunity to participate in the planning process of a recording session utilizing techniques such as song formation, microphone technique, mixing and production. The class will culminate in a CD recording. This class is appropriate for intermediate vocalists and instrumentalists. 108 hours laboratory.

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

### MIS-1C

**Advanced Performance Techniques For Studio Recording**  
2 UNITS

**Prerequisite:** MIS-1B

Description: Advanced performance techniques for the recording studio. A continuation of the skills studied in MIS-1B the focus of this course is communication, song collaboration, studio session mapping. Students will have the opportunity to lead a collaborative group, duet or solo project toward successful completion/recording utilizing techniques such as song formation, microphone technique, mixing and production. The class will culminate in a CD recording. This class is appropriate for advanced vocalists and instrumentalists. 108 hours laboratory.

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

### MIS-3

**Digital Audio Production 1**  
4 UNITS

**Prerequisite:** None

Description: This course introduces the techniques and elements of electronic music production. Topics include synthesis, sampling, MIDI sequencing and audio production. Students will create original compositions using electronic music techniques. Students taking this course will complete the official AVID coursework for Pro Tools 101 and 110 and will have the opportunity to obtain AVID Pro Tools User Certification. 54 hours lecture and 54 hours laboratory.

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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<td>WEL 08/26/19 12/14/19 08:00AM 08:50AM W IT106</td>
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### MIS-7

**Introduction To Music Technology**  
3 UNITS

**Prerequisite:** None

Description: This introductory course examines the terminology, equipment, techniques, and concepts related to music technology. The course will survey the principles and practices of audio, MIDI synthesis, notation, and audio recording utilizing hardware and software platforms. 36 hours lecture and 54 hours laboratory.

Enrolling in the above course will require enrolling in MAT-36-37862. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff
MIS-11A  
Studio Arts Ensemble I  2 UNITS  
Prerequisite: None  
Limitation on enrollment: Audition on or before the first class meeting  
Description: An ensemble designed for instrumentalists and vocalists interested in the popular music and entertainment industries. This ensemble is open to: singers, guitarists, drummers, bassists, horn players, string players and keyboardists who work collaboratively to study, perform and/or record selected popular musical arrangements. The music studied in this class will be chosen from a diverse body of popular music literature. Subsequent enrollment will provide students an opportunity for additional skill development and competency in the subject area. May be taken a total of two times. 108 hours laboratory. (TBA option)  
37614  Last Day to add: 09/26/19  
WEL  08/26/19  12/14/19  04:00PM  05:55PM  TTH  THTR204  
The above section is a web-enhanced class and has additional laboratory hours to be arranged. Internet access is required. In addition to the time spent in class, students are expected to perform outside of class at various locations throughout the semester. All concert dates and times will be listed on the class syllabus. Contact the instructor for additional information.  
Instructor: Staff  

MIS-11B  
Studio Arts Ensemble II  2 UNITS  
Prerequisite: MIS-11A  
Description: A continuation of the skill development of instrumentalists and vocalists interested in the popular music and entertainment industries. This ensemble is open to: singers, guitarists, drummers, bassists, horn players, string players and keyboardists who work collaboratively to study, perform and/or record selected popular musical arrangements. The music studied in this class will be chosen from a diverse body of popular music literature. Subsequent enrollment will provide students an opportunity for additional skill development and competency in the subject area. May be taken a total of two times. 108 hours laboratory. (TBA option)  
37615  Last Day to add: 09/26/19  
WEL  08/26/19  12/14/19  04:00PM  05:55PM  TTH  THTR204  
The above section is a web-enhanced class and has additional laboratory hours to be arranged. Internet access is required. In addition to the time spent in class, students are expected to perform outside of class at various locations throughout the semester. All concert dates and times will be listed on the class syllabus. Contact the instructor for additional information.  
Instructor: Staff  

MIS-12  
Live Sound Reinforcement  3 UNITS  
Prerequisite: None  
Description: This course is an overview of live concert sound reinforcement. This course focuses on the fundamentals of equipment set up and configuration, mixing surfaces, amplifiers, speakers, signal path, signal processing, microphones, monitoring and mixing techniques and acoustics. This course offers opportunities for hands-on experience in troubleshooting, sound checking and mixing live sound. 36 hours lecture and 54 hours laboratory.  
37616  Last Day to add: 09/06/19  
WE  08/26/19  12/14/19  09:40AM  10:45AM  T  THTR204  
08/26/19  12/14/19  09:40AM  10:30AM  TH  THTR204  
08/26/19  12/14/19  10:55AM  12:20PM  T  THTR204  
08/26/19  12/14/19  10:40AM  12:05PM  TH  THTR204  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff  

MARKETING  

MKT-20  
Principles of Marketing  3 UNITS  
Prerequisite: None  
Advisory: BUS-10  
Description: Examines the role of marketing as it relates to society and economic development. The course will analyze products, consumer, marketing research and strategic market planning. The course will survey with a global perspective, the selection of target markets as well as the development of the marketing mix: product, price and promotion. 54 hours lecture.  
37623  Last Day to add: 09/06/19  
WE  08/26/19  12/14/19  06:30PM  09:40PM  T  JFK112  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff  

MUSIC  

MUS-3  
Fundamentals of Music  4 UNITS  
Prerequisite: None  
Advisory: MUS-32A or Concurrent enrollment in an appropriate level piano class.  
Description: Through guided music notation and analysis, Fundamentals of Music incorporates the following concepts: Rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; diatonic chords; basic cadential formulas and phrase structure; dominant seventh; figured bass symbols; and non-harmonic tones. Development of skills in handwritten notation is expected. Laboratory includes sight singing and ear training activities that incorporate melodic, harmonic, and rhythmic dictation. Keyboard activities require the playing of major and minor scales, modes, triads, and seventh chords. 54 hours lecture and 54 hours laboratory. (TBA option)  
37629  Last Day to add: 09/06/19  
WE  08/26/19  12/14/19  07:40AM  08:50AM  M  HUM101  
08/26/19  12/14/19  07:40AM  08:30AM  WF  HUM101  
08/26/19  12/14/19  08:55AM  09:45AM  M  HUM101  
08/26/19  12/14/19  08:35AM  09:25AM  W  HUM101  
08/26/19  12/14/19  08:35AM  09:45AM  F  HUM101  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff  

HYB - Hybrid Lecture • HYBL - Hybrid Lab • HYBLO - Hybrid Online Lab • HYBO - Hybrid Online Lecture • LAB - Lab • LEC - Lecture • OL - Online Lecture • OLL - Online Lab  
WE - Web Enhanced Lecture • WEL - Web Enhanced Lab • WRK - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online  
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MUS-5
Music Theory II  4 UNITS

Prerequisite: MUS-4 or the equivalent
Advisory: MUS-32C or Concurrent enrollment in an appropriate level piano class
Description: Continued study and application of techniques acquired during Music Theory I. In addition, through guided composition and analysis, Music Theory II includes: Common Practice period voice leading involving four-part chorale writing; diatonic harmony; chromatic harmony; secondary/applied chords; modulation; borrowed chords; the Neapolitan chord; augmented sixth chords; and an introduction to binary and ternary forms. Laboratory includes chromatic sight singing and ear training activities that incorporate melodic, harmonic, and rhythmic dictation. Keyboard activities require the playing of chromatic chord progressions. 54 hours lecture and 54 hours laboratory. (TBA option)

WE 08/26/19 12/14/19 07:40AM 08:50AM M HUM101
08/26/19 12/14/19 07:40AM 08:30AM MF HUM101
08/26/19 12/14/19 08:55AM 09:45AM M HUM101
08/26/19 12/14/19 08:35AM 09:25AM W HUM101
08/26/19 12/14/19 08:35AM 09:45AM F HUM101

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MUS-19
Music Appreciation  3 UNITS

Prerequisite: None
Description: A broad survey of music in the Western world, including terminology for describing musical elements, forms, and styles. Organized to acquaint students with the roles of music and musicians in society and with representative musical selections through listening, reading, writing, and live performance. 54 hours lecture.

OL 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

Instructor: Staff

MUS-23
History of Rock and Roll  3 UNITS

Prerequisite: None
Description: A comprehensive study of rock and roll music from its origins to the present with emphasis on the historical, musical, and sociological influences. Study includes listening to music and identifying stylistic trends and influential artists. 54 hours lecture.

WE 08/26/19 12/14/19 12:45PM 02:10PM M HUM102
08/26/19 12/14/19 02:00PM 03:55PM TTH IT101

The above section is restricted to Corona High School students participating in Norco College’s Dual Enrollment Program.

Instructor: Staff

MUS-25
Jazz Appreciation  3 UNITS

Prerequisite: None
Description: A comprehensive study of jazz from its origins to the present day. Study will be centered on influential composers, instrumentalists, vocalists and arrangers. There will also be an introduction to, and study of, musical elements such as instrumentation, lyrics, form, rhythm and harmony. 54 hours lecture.

WE 08/26/19 12/14/19 12:45PM 02:10PM MW HUM101

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff

MUS-31
College Choir  1 UNITS

Prerequisite: None
Description: A vocal ensemble of mixed voices dedicated to the study, rehearsal, and performance of a variety of choral literature. May be taken a total of four times. 54 hours laboratory.

WE 08/26/19 12/14/19 12:45PM 02:10PM MW THTR101

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
MUS-32A
Class Piano I 1 UNITS
Prerequisite: None
Description: This beginning course focuses on developing the skills needed for performing on piano, including reading from music notation, rhythm study, technique, expression, improvisation, harmonization, transposition, repertoire and style study. 54 hours laboratory.
37631 Last Day to add: 09/06/19
WEL 08/26/19 12/14/19 12:45PM 02:10PM MW HUM101
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MUS-32B
Class Piano II 1 UNITS
Prerequisite: MUS-32A or the equivalent
Description: Continuation of the skills studied in MUS 32A focusing on techniques needed for performing on piano, including playing select major and parallel minor scales, reading music on the grand staff, tapping rhythms, harmonizing melodies using simple accompaniments, transposing, and simple score reading. 54 hours laboratory.
37632 Last Day to add: 09/06/19
WEL 08/26/19 12/14/19 02:30PM 03:55PM MW HUM101
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MUS-32C
Class Piano III 1 UNITS
Prerequisite: MUS-32B or the equivalent
Description: Continuation of the skills studied in MUS 32B focusing on keyboard techniques required for playing major and minor scales, diatonic chord progressions, harmonizing melodies, transposing, accompanying, score reading, reading chord symbols, sight reading and performance of intermediate-level piano learning pieces. 54 hours laboratory.
37633 Last Day to add: 09/06/19
WEL 08/26/19 12/14/19 02:30PM 03:55PM MW HUM101
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MUS-32D
Class Piano IV 1 UNITS
Prerequisite: MUS-32C or the equivalent
Description: Culmination of keyboard skills previously studied focusing on increasing keyboard facility for playing major and minor scales and arpeggios, diatonic chord progressions, harmonizing melodies, modulating, transposing, accompanying, simple score reading, sight reading and performance of piano pieces from the standard classical piano teaching literature. 54 hours laboratory.
37634 Last Day to add: 09/06/19
WEL 08/26/19 12/14/19 02:30PM 03:55PM MW HUM101
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MUS-37
Class Guitar 1 UNITS
Prerequisite: None
Description: Development of basic guitar playing skills, including reading from music notation, reading chord symbols, transposition, and playing open chords, bare chords, scales, and simple melodies. 54 hours laboratory.
37635 Last Day to add: 09/25/19
WEL 08/26/19 12/14/19 04:10PM 05:35PM MW THTR204
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MUS-38
Beginning Applied Music I 2 UNITS
Prerequisite: None
Limitation on enrollment: Audition on or before the first class meeting
Description: Vocal or instrumental instruction for students who are proficient performers and could benefit from individualized instruction as determined by audition. Each student must complete a minimum of 6.75 hours a week in a combination of individualized practice, lessons and concert attendance. Not designed for beginning students. May be taken a total of four times. 108 hours laboratory.
37636 Last Day to add: 09/28/19
WEL 08/26/19 12/14/19 04:30PM 06:05PM MW THTR204
The above section is a web-enhanced class and has a 108-hour laboratory requirement to be arranged. Internet access is required. This course offers private study in voice, piano, guitar, bass or drums. An audition is required. A mandatory instructional meeting will be held on Thursday, August 31st, from 12:50PM - 1.5PM in THTR 101. If you cannot attend the meeting, you must contact the instructor to schedule an audition. The deadline to schedule auditions is Friday, September 1st. 6 hours of lessons and 6 hours of required performance times are to be arranged with your instructor. In addition, students are required to practice in the Norco music practice facilities for 6 hours each week. For additional information, please email the instructor. kim.kamerin@norcocollege.edu or call 951-738-7703.
Instructor: Staff

MUS-39
Applied Music I 3 UNITS
Prerequisite: None
Limitation on enrollment: Audition on or before the first class meeting
Corequisite: Enrollment in a two- or three-unit performance class
Description: Vocal or instrumental instruction for students who are proficient performers and could benefit from individualized instruction as determined by audition. Each student must complete 10.125 hours per week in a combination of individualized practice, lessons, concert attendance and individual performance. Not designed for beginning students. May be taken a total of four times. 162 hours laboratory.
37637 Last Day to add: 09/28/19
WEL 08/26/19 12/14/19 04:30PM 06:05PM MW THTR204
The above section is a web-enhanced class and has a 162-hour laboratory requirement to be arranged. Internet access is required. This course offers private study in voice, piano, guitar, bass or drums. An audition is required. A mandatory instructional meeting will be held on Thursday, August 30st from 12:50PM - 1.5PM in THTR 101. If you cannot attend the meeting, you must contact the instructor to schedule an audition. The deadline to schedule auditions is Friday, August 31st. 9 hours of lessons are to be arranged with your instructor. In addition, students are required to practice in the Norco music practice facilities for 9 hours each week. For additional information, please email the instructor. kim.kamerin@norcocollege.edu or call 951-738-7703.
Instructor: Staff
MUS-41
Chamber Singers  
**Prerequisite:** None  
**Description:** This course is for the study, rehearsal, and public performance of literature for vocal chamber ensemble, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Participation in public performances is required. May be taken a total of four times. 108 hours laboratory. (TBA option)

37638  
**Last Day to add:** 09/23/19  
**WEL** 08/26/19 11/25/19 10:15AM 12:40PM MWF THTR204

The above section has additional laboratory hours to be arranged. In addition to the time spent in class, students are expected to perform outside of class at various locations throughout the semester. All concert dates and times will be listed on the class syllabus. Contact the instructor for additional information. The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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MUS-70
Guitar Lab Ensemble  
**Prerequisite:** MUS-37  
**Description:** Study and performance of beginning and intermediate literature for guitar ensemble. May be taken a total of four times. 54 hours laboratory.

37640  
**Last Day to add:** 09/06/19  
**WEL** 08/26/19 12/14/19 06:00PM 07:15PM MW THTR204

The above section is a web-enhanced class. Internet access is required.

**Instructor:** Staff

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MUS-78
Beginning Applied Music II  
**Prerequisite:** None  
**Description:** Advanced vocal or instrumental instruction for students who are proficient performers and could benefit from individualized instruction as determined by audition. Course includes individual lessons, supervised practice, individual performance, and jury evaluations. Not designed for beginning students. Course may be taken a total of four times. 108 hours laboratory. (TBA option)

37641  
**Last Day to add:** 09/28/19  
**WEL** 08/26/19 12/14/19 THTR204

The above section is a web-enhanced class and has a 108-hour laboratory requirement to be arranged. Internet access is required. This course offers private study in voice, piano, guitar, bass or drums. An audition is required. A mandatory instructional meeting will be held on Thursday, August 30th from 12:50PM - 1:50PM in THTR 101.

If you cannot attend the meeting, you must contact the instructor to schedule an audition. The deadline to schedule auditions is Friday, August 31st. 9 hours of lessons are to be arranged with your instructor. In addition, students are required to practice in the Norco music practice facilities for 9 hours each week. For additional information, please email the instructor, kim.kamerin@norcocollege.edu or call 951-738-7703.

**Instructor:** Staff

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MUS-79
Applied Music II  
**Prerequisite:** None  
**Description:** This course is for the study, rehearsal, and public performance of literature for vocal chamber ensemble, with an emphasis on the development of skills needed to perform within an ensemble. Different literature will be studied each semester. Participation in public performances is required. May be taken a total of four times. 108 hours laboratory. (TBA option)

37642  
**Last Day to add:** 09/28/19  
**WEL** 08/26/19 12/14/19 10:15AM 12:40PM MWF THTR204

The above section is a web-enhanced class and has a 162-hour laboratory requirement to be arranged. Internet access is required. This course offers private study in voice, piano, guitar, bass or drums. An audition is required. A mandatory instructional meeting will be held on Thursday, August 30th from 12:50PM - 1:50PM in THTR 101.

If you cannot attend the meeting, you must contact the instructor to schedule an audition. The deadline to schedule auditions is Friday, August 31st. 9 hours of lessons are to be arranged with your instructor. In addition, students are required to practice in the Norco music practice facilities for 9 hours each week. For additional information, please email the instructor, kim.kamerin@norcocollege.edu or call 951-738-7703.

**Instructor:** Staff

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MUS-89
Music of Multicultural America  
**Prerequisite:** None.  
**Description:** A comparative and integrative study of the multicultural musical styles of the United States.

37643  
**Last Day to add:** 09/06/19  
**OL** 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required.


**Instructor:** Staff

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**PHILOSOPHY**

PHI-10
Introduction to Philosophy  
**Prerequisite:** None.

Advisory: ENG-50 or ENG-80

**Description:** A survey and exploration of significant questions in the Western philosophical tradition. Questions are drawn from the various branches of philosophy: metaphysics, theory of knowledge, ethics, aesthetics, political philosophy and/or philosophy of religion. Students may not receive credit for both PHI-10 and PHI-10H. 54 hours lecture.

37648  
**Last Day to add:** 09/06/19  
**OL** 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required.


**Instructor:** Staff

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PHI-35
Philosophy of Religion 3 UNITS
Prerequisite: None
Advisory: PHI-10 or PHI-11 and REA-83 and qualification for ENG-1A
Description: An introduction to the examination of religious claims from a philosophical perspective. Emphasis will be placed upon examining the rational justification for various traditional faith claims, and upon examining the relationship between rationality and faith. The course presumes a basic knowledge of philosophical argumentation. 54 hours lecture.

37654 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 12:45PM 02:10PM MW WEQW7
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

PHYSICAL SCIENCE

PHS-1
Introduction to Physical Science 3 UNITS
Prerequisite: None
Description: Fundamental concepts of earth, space, and environmental science (astronomy, geology, meteorology, and oceanography) and principles of physics and chemistry, especially as they relate to these fields. Emphasis is placed on the application of science in the understanding and solution of environmental problems. 54 hours lecture.

37655 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 08:00AM 09:25AM TTH HUM201
The above section is a web-enhanced class. Internet access is required.
Instructor: D Johnson

PHYSICS

PHY-2B
General Physics II 4 UNITS
Prerequisite: PHY-2A
Description: Meets the requirements for students majoring in biological science, including pre-medical and pre-dental students. This course includes: study of thermodynamics, including temperature, methods of heat transfer, calorimetry, ideal gas law, laws of thermodynamics, entropy, and heat engines; study of electricity and magnetism, including electric field and potential, Gauss Law, current, Ohm's Law, capacitance and inductance, Faradays Law; study of optics, including electromagnetic waves, reflection, refraction, interference, and diffraction; study of modern physics, including the photoelectric effect, de Broglie wavelength, quantum numbers, and radioactive decay. 54 hours lecture and 54 hours laboratory. (Letter grade or Pass/No Pass option)

37659 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH HUM201
02:00PM 05:10PM TH HUM201
The above section is a web-enhanced class. Internet access is required.
Instructor: O Tripathi
PHY-4A
Mechanics  
**Prerequisite:** None  
**Corequisite:** MAT-1A  
Description: Examines vectors, particle kinematics and dynamics, work and power, conservation of energy and momentum, rotation, oscillations and gravitation. 54 hours lecture and 54 hours laboratory.  
37660 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 09:15AM 10:40AM MW HUM201  
08/26/19 12/14/19 02:30PM 05:40PM W HUM201  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** O Tripathi

The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

PHY-4C
Heat, Light and Waves  
**Prerequisite:** PHY-4A  
**Corequisite:** MAT-1B  
Description: Examines fluid mechanics; temperature, heat transfer, thermal properties of matter, laws of thermodynamics; oscillations and waves; reflection, refraction, lenses and mirrors, interference, and diffraction. 54 hours lecture and 54 hours laboratory.  
37662 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 11:10AM 12:35PM MW HUM201  
08/26/19 12/14/19 02:30PM 05:40PM M HUM201  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** O Tripathi

PHY-10
Introduction to General Physics  
**Prerequisite:** MAT-52  
Description: An non-science major physics course covering mechanics, properties of matter, heat, sound, light, electricity and magnetism, and nuclear physics. 54 hours lecture.  
37657 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 04:10PM 05:35PM TTH LIBR121  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** D Johnson

WE 08/26/19 12/14/19 06:00PM 07:25PM MW HUM201  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

PHY-11
Physics Laboratory  
**Prerequisite:** None  
**Corequisite:** PHY-10  
Description: An optional laboratory science course for the non-science major. Emphasis on laboratory techniques, student experimentation and laboratory demonstrations. 54 hours laboratory.  
37658 Last Day to add: 09/06/19  
WEL 08/26/19 12/14/19 06:00PM 09:10PM TH HUM201  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

POLITICAL SCIENCE

POL-1
American Politics  
**Prerequisite:** None  
**Advisory:** REA-83 and qualification for ENG-1A  
Description: An introduction to United States and California government and politics, including their constitutions, political institutions and processes, and political actors. Examination of political behavior, political issues, and public policy. Students may not receive credit for both POL-1 and POL-1H. 54 hours lecture.  
37670 Last Day to add: 09/06/19  
OL 08/26/19 12/14/19 ONLINE  
The above section is an online class. Computer with Internet access required.  
**Instructor:** Staff

37674 Last Day to add: 09/06/19  
OL 08/26/19 12/14/19 ONLINE  
The above section is an online class. Computer with Internet access required.  
**Instructor:** Staff

37676 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 08:00AM 09:25AM TTH IT122  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37663 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 09:15AM 10:40AM MW IT122  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37667 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT122  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37666 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 11:15AM 12:40PM TTH LIBR110  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37675 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 02:30PM 03:55PM MW STEM201  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37668 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 02:40PM 04:05PM MW WEQ03  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37669 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 09:15AM 10:40AM MW WEQ03  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

37946 Last Day to add: 09/06/19  
WE 08/26/19 12/14/19 ONLINE  
The above section is restricted to CAVA Online High School students participating in Norco College’s Dual Enrollment Program.  
**Instructor:** Staff

37675 Last Day to add: 09/06/19  
OL 08/26/19 12/14/19 ONLINE  
The above section is an online class. Computer with Internet access required.  
**Instructor:** Staff
POL-4H
Honors Introduction to World Politics  
3 UNITS
Prerequisite: None
Advisory: REA-83 and Qualification for ENG-1A
Description: A study of the theories, paradigms, and issues of global politics. Special attention is given to the role of the United States in the international community, the role of international organizations and international political economy. This honors course offers an enriched experience for accelerated students by means of limited class size, seminar format, student-generated and-led discussions and projects, a focus on primary texts in translation, and the applications of higher-level thinking and writing skills analysis, synthesis, and evaluation. Students may not receive credit for both POL-4 and POL-4H. 54 hours lecture.

Instructor: Staff

POL-7A
Current Political Issues A  
3 UNITS
Prerequisite: None
Advisory: Qualification for English 1A
Description: Current political issues is designed to provide students the opportunity to examine major national and global issues which are not fully covered in the regular department curriculum. Topics selected are defined as current critical issues facing our nation and globe and will vary with each course offering. Each issue will be covered in detail, as will potential solutions to each issue and the political bodies involved in attempting resolution. 54 hours lecture.

Instructor: Staff

PSYCHOLOGY

PSY-1
General Psychology  
3 UNITS
Prerequisite: None
Description: Survey of scientific study of behavior and mental processes, including learning, emotion, motivation, emotional problems and therapy.

Instructor: Staff

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PSY-2

Biological Psychology

3 UNITS

Prerequisite: PSY-1

Description: The scientific study of brain-behavior relationships and mental processes. Issues addressed include: historical scientific contributions and current research principles for studying brain-behavior associations and mental processes, basic nervous system structure and function, sensory and motor systems, emotion, motivation, learning and memory, sleep and dreaming, and neurological and mental disorders. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental investigations. 54 hours lecture.

Instructor: Staff

OL 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

LEC 08/26/19 12/14/19 08:00AM MW CRCCRCUL3

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff

LEC 08/26/19 12/14/19 08:00AM 09:35AM MW IT202

The above section is a web-enhanced class. Internet access is required.

PSY-8

Introduction to Social Psychology

3 UNITS

Prerequisite: None.

Description: The study of individual human behavior in relation to the social environment.

Instructor: Staff

WE 08/26/19 12/14/19 11:10AM 12:13PM MW IT202

The above section is a web-enhanced class. Internet access is required.

PSY-9

Developmental Psychology

3 UNITS

Prerequisite: None.

Description: Examines the prevailing theories and research of developmental psychology and the stages of human development from conception to death.

Instructor: Staff

OL 08/26/19 12/14/19 ONLINE

The above section is an online class. Computer with Internet access required. See www.opencampus.com.

LEC 08/26/19 12/14/19 08:00AM 09:35AM TTH CRCCRCUL3

The above class is part of Norco College's Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.

Instructor: Staff

LEC 08/26/19 12/14/19 08:00AM 09:40AM MW IT202

The above section is a web-enhanced class. Internet access is required.

LEC 08/26/19 12/14/19 02:30PM 03:55PM MW IT122

The above section is a web-enhanced class. Internet access is required.

LEC 08/26/19 12/14/19 06:00PM 09:10PM TH ATEC205

The above section is a web-enhanced class. Internet access is required.
PSY-35  
Abnormal Psychology  
3 UNITS  
Prerequisite: None.  
Description: A survey of the nature, causes and treatment of psychological disorder.  
Instructor: Staff  
37695  
WE 08/26/19 12/14/19 09:40AM 11:05AM  TTH  IT101  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff

PSY-50  
Research Methods in Psychology  
4 UNITS  
Prerequisite: PSY-1 and PSY-48 or MAT-12 or MAT-12H  
Description: Introduces students to psychological research methods with emphasis on the use of the scientific method. The laboratory will complement the lectures and allow each student to design and conduct behavioral research, including collecting and analyzing research data. 63 hours lecture and 27 hours laboratory.  
Instructor: Staff  
37696  
WE 08/26/19 12/14/19 12:30PM 02:25PM  MW  WEQW6B  
08/26/19 12/14/19 09:15AM 10:40AM  W  STEM302  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff

READING  
REA-4  
Critical Reading as Critical Thinking  
3 UNITS  
Prerequisite: None  
Description: The relationship between critical reading and critical thinking. Emphasis will be placed on the development of reading skills in the interpretation, analysis, criticism and advocacy of ideas encountered in academic reading. 54 hours lecture.  
Instructor: Staff  
37697  
WE 08/26/19 12/14/19 12:45PM 02:10PM  MW  WEQW5  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff

PSY-33  
Theories of Personality  
3 UNITS  
Prerequisite: None.  
Description: A survey and assessment of the basic concepts, theories, science, and principles of the prevailing theories of personality.  
Instructor: Staff  
37698  
WE 08/26/19 12/14/19 03:00PM 04:25PM  MW  CENT907  
The above section is restricted to Centennial High School students participating in Norco College's Dual Enrollment Program.  
Instructor: Staff

REA-83  
College Reading and Thinking  
3 UNITS  
Prerequisite: REA-82 or ESL-73 or qualifying placement level  
Description: Instruction in reading academic materials. 54 hours lecture (Letter Grade or Pass/No Pass option.)  
Instructor: Staff  
37709  
WE 08/26/19 12/14/19 11:10AM 12:35PM  MW  LIBR110  
The above section is a web-enhanced class. Internet access is required.  
Instructor: Staff

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RREAL ESTATE

RLE-80
Real Estate Principles 3 UNITS
Prerequisite: None.
Description: Comprehensive analysis of basic laws, principles, terminology and current practices of California real estate.
37715 Last Day to add: 09/03/19
OL 08/26/19 10/19/19
The above section is a short term online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: Staff

RLE-81
Real Estate Practices 3 UNITS
Prerequisite: None.
Description: Covers basic laws and principles of California real estate, terminology and daily operations in a real estate brokerage. Includes listing, prospecting, advertising, financing, sales techniques, escrow and ethics. Applies toward state’s educational requirements for the brokers examination. 54 hours lecture.
37718 Last Day to add: 09/03/19
OL 08/26/19 10/19/19
The above section is a short term online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: T Wagner

RLE-82
Legal Aspects of Real Estate 3 UNITS
Prerequisite: None.
Description: California real estate law, including rights incident to property ownership and management, agency, contracts, and application to real estate transfer, conveyance, probate proceedings, trust deeds, and foreclosure, as well as recent legislation governing real estate transactions. Applies toward educational requirement of brokers examination. 54 hours lecture.
37720 Last Day to add: 09/03/19
OL 08/26/19 10/19/19
The above section is a short term online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: T Wagner

RLE-83
Real Estate Finance 3 UNITS
Prerequisite: None.
Description: Analysis of real estate finance in residential, apartment, commercial and special purpose properties.
37721 Last Day to add: 10/29/19
OL 10/21/19 12/14/19
The above section is a short term online class. Computer with Internet access required.
See www.opencampus.com. Please note the start and end dates.
Instructor: T Wagner

SCU SUPPLY CHAIN AUTOMATION

SCA-1
Introduction to Automated Warehousing 3 UNITS
Prerequisite: None.
Description: An industrial technology overview course covering the basic knowledge and skills needed for supply chain technicians to successfully work in an automated distribution center. Introduction to the troubleshooting and maintenance of complex electromechanical systems is a major focus of this class. 36 hours lecture and 54 hours laboratory. Same as SCT-1.
37919 Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 07:05PM T IT124
08/26/19 12/14/19 06:00PM 06:50PM TH IT124
08/26/19 12/14/19 07:15PM 08:40PM T TH IT124
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff
SUPPLY CHAIN TECHNOLOGY

SCT-1

Introduction to Automated Warehousing 3 UNITS

Prerequisite: None

Description: An industrial technology overview course covering the basic knowledge and skills needed for supply chain technicians to successfully work in an automated distribution center. Introduction to the troubleshooting and maintenance of complex electromechanical systems is a major focus of this class. 36 hours lecture and 54 hours laboratory.

Last Day to add: 09/06/19
08/26/19 12/14/19 06:00PM 09:10PM TH IT101
08/26/19 12/14/19 07:35AM 09:00AM MW HUM102
08/26/19 12/14/19 08:00AM 09:25AM TTH STEM201

The above section is a web-enhanced class. Internet access is required.

Instructor: G Graham

SOCILOGY

SOC-1

Introduction to Sociology 3 UNITS

Prerequisite: None

Advisory: ENG-50

Description: An introduction to the basic concepts relating to the study of society. The course includes investigation into the foundations of sociology including its overall perspective, theoretical orientations, and research methodology; the foundations of social life including the components of culture, social interaction and the process of socialization, groups, organizations, and deviance; economic social inequality based upon class, race, sex, and age; social institutions; and dimensions of social change. Students may not receive credit for both SOC-1 and 1H. 54 hours lecture

Last Day to add: 09/06/19
08/26/19 12/14/19 06:00PM 07:05PM T IT124
08/26/19 12/14/19 06:00PM 06:50PM TH IT124
08/26/19 12/14/19 07:15PM 08:40PM TTH IT124

The above section is a short term online class. Computer with Internet access required.

Instructor: Staff

37728

WE 08/31/19 12/07/19 08:00AM 11:35AM S HUM111

The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.

Instructor: Staff

37731

WE 08/26/19 12/14/19 09:40AM 11:05AM TTH STEM201

The above section is a web-enhanced class. Internet access is required.

Instructor: K Andacheh

37723

WE 08/26/19 12/14/19 11:15AM 12:40PM TTH STEM201

The above section is a web-enhanced class. Internet access is required.

Instructor: K Andacheh

37734

WE 08/26/19 12/14/19 12:45PM 02:10PM MW IT209

The above section is a web-enhanced class. Internet access is required.

Instructor: K Andacheh

37725

HYB 08/26/19 12/14/19 02:30PM 03:55PM T IT117
08/26/19 12/14/19 ONLINE

The above section is a hybrid class. Computer with Internet access required.


Instructor: Staff

37824

HYB 08/26/19 12/14/19 02:30PM 03:55PM TH IT117
08/26/19 12/14/19 ONLINE

The above section is a hybrid class. Computer with Internet access required.


Instructor: Staff

37749

WE 08/26/19 12/14/19 03:00PM 04:25PM TTH HM126

The above section is restricted to Eleanor Roosevelt High School students participating in Norco College's Dual Enrollment Program.

Instructor: Staff

37729

WE 08/26/19 12/14/19 04:10PM 05:35PM MW WEQW6A

The above section is a web-enhanced class. Internet access is required.

Instructor: J Hill

37732

WE 08/26/19 12/14/19 04:10PM 05:35PM TTH IT101

The above section is a web-enhanced class. Internet access is required.

Instructor: J Hill

37724

WE 08/26/19 12/14/19 06:00PM 09:10PM TH IT109

The above section is a web-enhanced class. Internet access is required.

Instructor: Staff
SOC-2
American Social Problems  
Prerequisite: None
Description: Identification and analysis of major social problems confronting contemporary 20th century America; emphasizing, among other topics, urban and rural transformations, family life, minorities, criminal and delinquent behavior. 54 hours lecture.
38010  Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 12:30PM 01:55PM MW CRCCRCL609A
The above class is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.
Instructor: J Hill

SOC-10
Race And Ethnic Relations  
Prerequisite: None
Description: An introduction to the relevant theories and operational definitions that ground the study of race and ethnic relations in the social sciences. Extensive treatment of prejudice, discrimination and the concept of racism. The course brings into sharper focus the history and contemporary status of White ethnics, religious minorities, American-Indians, African-Americans, and women in the United States. Social institutions, such as family, education, politics, and the economy receive special attention for each group. The similarities and differences in ethnic hostilities between the U.S. and other societies are closely examined. 54 hours lecture.
38013  Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 02:05PM 03:30PM MW CRCCRCL609A
The above class is part of Norco College’s Next Phase Partnership with the CRC in Norco, serving men pursuing a college education while incarcerated at the CRC in Norco.
Instructor: J Hill

SOC-12
Marriage and Family Relations  
Prerequisite: None
Advisory: SOC-1 and ENG-50
Description: Examines the major trends in marriage, families, and intimate relationships. Focuses on how inequality and diversity affect intimate and family relations. Discusses the dynamics of gender inequality among families and couples and how family life is shaped by race and ethnicity, social class, and sexuality. Discusses issues of interpersonal violence, divorce, and life in later years. 54 hours lecture.
38014  Last Day to add: 09/06/19
LEC 08/26/19 12/14/19 06:00PM 09:10PM M CRCCRCUL3
The above section is a web-enhanced class. Internet access is required.
Instructor: J Hill

SOC-20
Introduction to Criminology  
Prerequisite: None
Description: A sociological analysis of crime, criminal law and criminality.
37742  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 06:00PM 09:10PM T IT101
The above section is a web-enhanced class. Internet access is required.
Instructor: J Hill

SOC-50
Introduction to Social Research Methods  
Prerequisite: SOC-1
Description: Examination of the fundamental elements of empirical research and the ways sociologists think critically, including attention to the nature of theory, hypothesis, variables and ethics of research. Application of qualitative and quantitative analytic tools including logic and research design, such as experimental, survey, observational, comparative historical research and case studies. 54 hours lecture.
37743  Last Day to add: 09/06/19
WE 08/26/19 12/14/19 11:10AM 12:35PM MW IT211
The above section is a web-enhanced class. Internet access is required.
Instructor: K Andacheh
SPANISH

SPANISH PLACEMENT TESTING
The Spanish placement test measures competency levels for those who wish to enroll in Spanish courses but need to determine the appropriate starting level. The results show a recommendation of the appropriate Spanish class. Students can enroll in a level lower than their placement, but not higher. This placement test is intended for placement only, not for credit replacement. Once you have taken a Spanish class, you can no longer take the placement test. Placement tests are available by appointment only.

Please visit our online appointment system at:
https://esars.rccd.edu/Norco/Assessment/index.htm

If you need to speak with someone directly, please call the Norco College Assessment Center (951) 372-7176

ENROLLMENT GUIDELINES
SPANISH

1. If you have taken Spanish in high school or in another college or university, you must have official transcripts on file and request evaluation of the course(s) in order to enroll above level 1.

2. If you have acquired knowledge of Spanish outside of a formal educational institution, you must file a matriculation appeals petition in order to enroll above level 1.

SPA-1
Spanish 1 5 UNITS

Prerequisite: None
Advisory: Completion of placement test to assess level of proficiency in Spanish.
Description: Develops basic skills in listening, reading, speaking and writing. Emphasis on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Spanish at the beginning level. Includes discussion of Hispanic culture and daily life. Students may receive credit for only one of the following: SPA-1 or SPA-1H. 90 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)

Instructor: R Contreras

SPA-2
Spanish 2 5 UNITS

Prerequisite: SPA-1B or SPA-1 or SPA-1H, or qualifying placement level on the Spanish assessment test or the equivalent
Description: Further development of basic skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Spanish at the beginning level. This course includes an expanded discussion of Hispanic culture and daily life. Students may not receive credit for both SPA-2 and SPA-2H. 90 hours lecture and 18 hours laboratory. (TBA option)(Letter Grade, or Pass/No Pass option.)

Instructor: A Covarrubias


THEATER ARTS

THE-3
Introduction to the Theater 3 UNITS
Prerequisite: None
Description: A comprehensive study of theatrical styles and forms with units in directing, acting, designing, technical theater, playwriting, and genres, to acquaint the student with the diverse nature of theater leading to an appreciation and understanding of theater as a separate and distinctive art form. 54 hours lecture.

SPA-3
Spanish 3 5 UNITS
Prerequisite: SPA-2 or SPA-2H or qualifying placement level on the Spanish assessment test or the equivalent
Description: Development of intermediate skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Spanish at the intermediate level. Includes an expanded discussion of Hispanic culture and daily life. 90 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

SPA-12
Latin American Culture and Civilization 3 UNITS
Prerequisite: None
Description: Introduction to Latin America’s complex and unique history, as reflected in language, literature, art, history, customs, religions, and its political and social institutions. Class conducted in English. 54 hours lecture (Letter grade, or Pass/No Pass option)

THEATER ARTS

THE-3
Introduction to the Theater 3 UNITS
Prerequisite: None
Description: A comprehensive study of theatrical styles and forms with units in directing, acting, designing, technical theater, playwriting, and genres, to acquaint the student with the diverse nature of theater leading to an appreciation and understanding of theater as a separate and distinctive art form. 54 hours lecture.

SPA-3
Spanish 3 5 UNITS
Prerequisite: SPA-2 or SPA-2H or qualifying placement level on the Spanish assessment test or the equivalent
Description: Development of intermediate skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Spanish at the intermediate level. Includes an expanded discussion of Hispanic culture and daily life. 90 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

SPA-12
Latin American Culture and Civilization 3 UNITS
Prerequisite: None
Description: Introduction to Latin America’s complex and unique history, as reflected in language, literature, art, history, customs, religions, and its political and social institutions. Class conducted in English. 54 hours lecture (Letter grade, or Pass/No Pass option)

THEATER ARTS

THE-3
Introduction to the Theater 3 UNITS
Prerequisite: None
Description: A comprehensive study of theatrical styles and forms with units in directing, acting, designing, technical theater, playwriting, and genres, to acquaint the student with the diverse nature of theater leading to an appreciation and understanding of theater as a separate and distinctive art form. 54 hours lecture.

SPA-3
Spanish 3 5 UNITS
Prerequisite: SPA-2 or SPA-2H or qualifying placement level on the Spanish assessment test or the equivalent
Description: Development of intermediate skills in listening, reading, speaking and writing. A continued emphasis on the acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of standard spoken and written Spanish at the intermediate level. Includes an expanded discussion of Hispanic culture and daily life. 90 hours lecture and 18 hours laboratory. (TBA option) (Letter Grade, or Pass/No Pass option.)

SPA-12
Latin American Culture and Civilization 3 UNITS
Prerequisite: None
Description: Introduction to Latin America’s complex and unique history, as reflected in language, literature, art, history, customs, religions, and its political and social institutions. Class conducted in English. 54 hours lecture (Letter grade, or Pass/No Pass option)
WORK EXPERIENCE

WKX-200
Work Experience  1 UNITS

Prerequisite: None
Advisory: Students should have paid or voluntary employment
Description: This course is designed to coordinate the students occupational on-the-job training with related instruction in work-related skills, including occupational and educational resources, career planning, resume development and interview techniques. Students may earn up to four (4) units each semester for a maximum of 16 units of work experience. No more than 20 hours per week may be applied toward the work requirement; 60 hours of volunteer work or 75 hours of paid work in the semester are required for each unit. WKX-200 is an enrolling course for General Work Experience and Occupational Work Experience courses. Students enrolling in WKX-200 are administratively moved to the appropriate general or occupational work experience course after the first class meeting. Determination of the appropriate work experience course is made by the instructor, with input from the student, based upon several factors, including the number of hours worked during the semester, occupational program requirements, and type of work in which the student is engaged. 18 hours orientation and 60 hours of volunteer work experience (maximum of 240 hours) or 75 hours of paid work experience (maximum of 300 hours) are required for each enrolled unit.

WRKO 08/26/19 12/14/19 03:00PM 03:50PM TH IT121
The above section is an online class. Computer with Internet access required.
Instructor: Staff

WRKO 08/26/19 12/14/19 04:00PM 04:50PM TH IT121
The above section is an online class. Computer with Internet access required.
Instructor: N Capps

WRKO 08/26/19 12/14/19 05:00PM 05:50PM TH IT121
The above section is an online class. Computer with Internet access required.
Instructor: N Capps

WRITING LAB -NORCO FULL TERM

WL-LAB
Writing Center Lab  0 UNITS

Prerequisite: None.
Introduction to drawing in a variety of media. Exploration of the elements of art, composition, perspective, including development of observational, motor and creative skills.

WEL 08/26/19 12/14/19 03:00PM 03:50PM TH IT121
The above section is a web-enhanced class. Internet access is required.
Instructor: N Capps

WEL 08/26/19 12/14/19 04:00PM 04:50PM TH IT121
The above section is a web-enhanced class. Internet access is required.
Instructor: N Capps

WEL 08/26/19 12/14/19 05:00PM 05:50PM TH IT121
The above section is a web-enhanced class. Internet access is required.
Instructor: N Capps