



# Summer 2018

CLASSES BEGIN JUNE 18

# NORCO COLLEGE



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For important information regarding fees, payment deadlines, financial aid and registration please refer to our Information Pages. Para información en español, por favor refiérase a la sección 17-23 de nuestra Páginas de Información.

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.

A TEC	Applied Technology	SSV	Student Services
CA CT	CA CT Center	ST	Science and Technology
LI BR	Wilfred J. Airey Library	STEM	STEM Center
HUM	Humanities	THTR	Theater Building
IT	Industrial Technology	WEQ	West End Quad
JFK	John F. Kennedy Middle College High School		

## ACCOUNTING

### 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.)

35946 Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

The above section is an online class. Computer with Internet access required. See [www.opencampus.com](http://www.opencampus.com).

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.

35947

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

The above section is an online class. Computer with Internet access required. See [www.opencampus.com](http://www.opencampus.com).

Instructor: P Worsham

## ANATOMY AND PHYSIOLOGY

### AMY-10 Survey of Human Anatomy and Physiology 3 UNITS

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.

35948

Last day to add: 06/22/18

WE 06/18/18 07/26/18 01:30PM 03:40PM MTWTEC 114

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

Instructor: G Johansen

Our distance education courses are currently undergoing a change in learning management systems (LMS) from Blackboard to Canvas. Certain course sections are now being taught in Canvas. To find a list of these courses and how this

## 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.)

35954

Last day to add: 06/23/18

OL 06/18/18





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## 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)

36118 Last day to add: 06/22/18

WE 06/18/2018 07/26/18 01:00PM 03:50PM MTTH 125

WEL 06/18/2018 07/26/18 04:00PM 04:50PM MTTH 125

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: A Rainey

## CIS-77 Full Stack Web Development

8 UNITS

Prerequisite: None

Description: The course teaches students how to develop web-based applications (apps) and websites to prepare for entry level web media jobs and to provide resources and techniques to assist aspiring entrepreneurs in conceiving web-based start-up companies. This course prepares a student to become a full-stack web developer. Course is subdivided into three phases. The first phase teaches web-media development fundamentals such as HTML language, Cascading Style Sheets (CSS), and Javascript, and open source software tools, etc. The next phase introduces web apps and website programming tools for rapid deployment and for expanding the functionality of a project. During the last phase the student selects and develops a special project to demonstrate and showcase the newly acquired full-stack web development skills. 36 hours lecture and 324 hours of lab.

36125 Last day to add:

LEC TBA

Instructor: Sta

## 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)

36119 Last day to add: 06/22/18

WE 06/18/2018 07/26/18 09:30AM 12:20PM MTTH ATEC 118

WEL 06/18/2018 07/26/18 08:30AM 09:20AM MTTH ATEC 118

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

## CIS-98A Introduction to Excel

1.50 UNITS

Prerequisite: None.

Description: An introduction to electronic spreadsheets using Excel. (Same as CAT-98A)

35975 Last day to add: 06/23/18

OL 06/18/2018 07/26/18 ON LINE

OLL 06/18/2018 07/26/18 ON LINE

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

See [www.opencampus.com](http://www.opencampus.com). All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: C McConnell-Freeman

## 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.)

35979 Last day to add: 06/22/18

WE 06/18/2018 07/26/18 08:00AM 10:10AM MTWR 109

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

Instructor: B Rihan

### 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.)

35978 Last day to add: 06/22/18

HYB 06/19/2018 07/26/18 10:35AM 12:45PM MW LIBR 109

HYBO 06/19/2018 07/26/18 ON LINE

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

See [www.opencampus.com](http://www.opencampus.com).

Instructor: J Muto

### 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.)

35976 Last day to add: 06/22/18

WE 06/18/2018 07/26/18 01:00PM 03:10PM MTWR 109

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

Instructor: B Rihan

## COM-9 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.)

35980

Last day to add: 06/22/18

WE 06/18/18 07/26/18 03:30PM 05:40PM MTWTF10

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

Instructor: L Tat

## 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.

35984

Last day to add: 06/23/18

LEC 06/19/18 07/26/18 06:00PM 09:05PM TWTF123

Instructor: H Lindner

## EARLY CHILDHOOD EDUCATION

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

LEC 06/19/18 07/26/18 06:00PM 09:05PM TWTF123





## 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 or ENG-80
- 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 80

- There is no prerequisite; the course is open to all students.

#### ENGLISH 70

- There is no prerequisite; the course is open to all students. It is strongly recommended that students register in an appropriate composition course (ENG-70, 80, 50, or ENG-1A) during their first semester of enrollment. See "Moving through English" for more details.

### ENG-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)

35993

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

OLL 06/18/18 07/26/18

ON LINE

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

See [www.opencampus.com](http://www.opencampus.com). All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: S Hanson

### ENG-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)

36000

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

OLL 06/18/18 07/26/18

ON LINE

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

See [www.opencampus.com](http://www.opencampus.com). All hours, including the 18-hour laboratory requirement, are completed online.

Instructor: E Rossi

### ENG-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)

36002

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

OLL 06/18/18 07/26/18

ON LINE

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

Instructor: D Samson

### ENG-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)

35994

Last day to add: 06/22/18

WE 06/18/18 07/26/18 08:00AM 11:50AM MTTH 111

WEL 06/18/18 07/26/18 12:00PM 12:50PM MTTH 121

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

Instructor: A Elizalde

### ENG-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)

35997

Last day to add: 06/23/18

HYB 06/19/18 07/26/18 08:00AM 11:50AM TTHCACT 1

HYBO 06/19/18 07/26/18 ON LINE

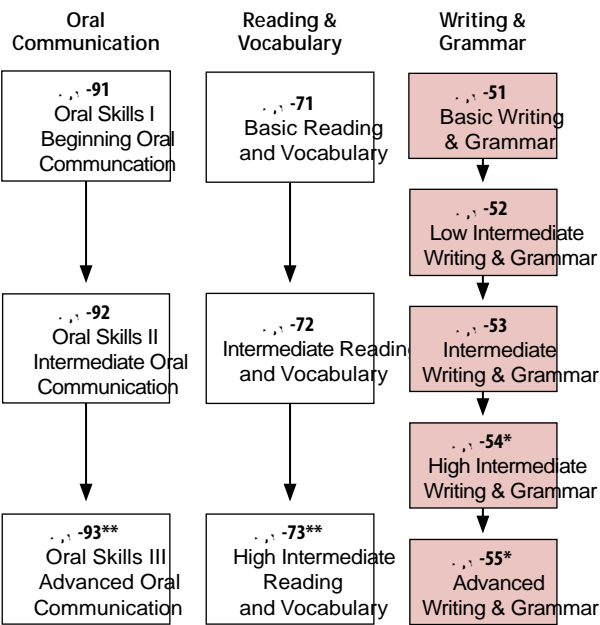
HYBLO 06/19/18 07/26/18 ON LINE

The above section is a hybrid class and has an 18-hour laboratory requirement. Computer with Internet access required. See [www.opencampus.com](http://www.opencampus.com).

Instructor: C Liang

## Moving through English, ESL, Reading

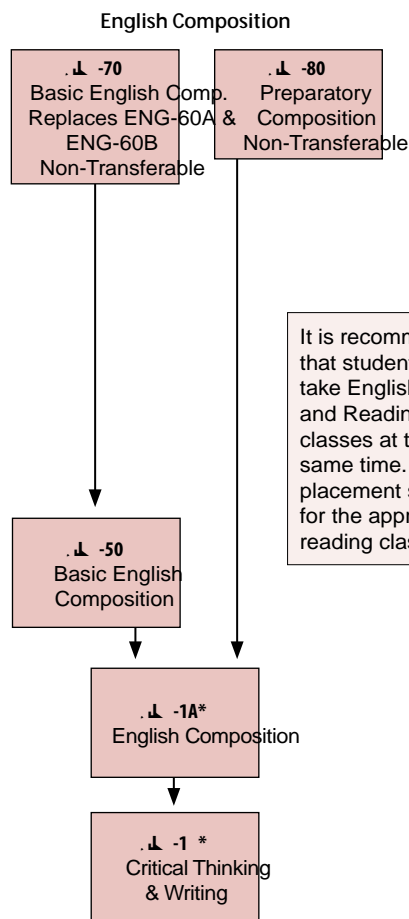
### English as a Second Language



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

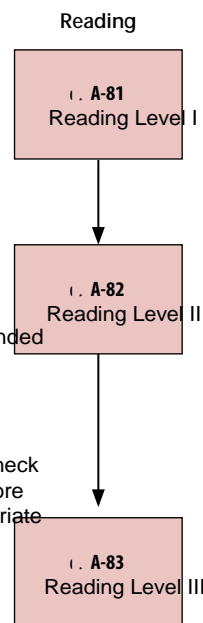
Shaded areas indicate possible course placements

### English Composition



It is recommended that students take English and Reading classes at the same time. Check placement score for the appropriate reading class.

### Reading



### ENG-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)

35996 Last day to add: 06/22/18

WE 06/18/18 07/26/18 09:00AM 12:50PM TTH IT 123

WEL 06/18/18 07/26/18 08:00AM 08:50AM MTTH 121

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

Instructor: E Robles

### ENG-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)

35999 Last day to add: 06/22/18

WE 06/18/18 07/26/18 11:00AM 12:50PM TTH IT 122

WEL 06/18/18 07/26/18 03:00PM 03:50PM MTTH 121

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

Instructor: J Watson

## ENG-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)

35995

Last day to add: 06/22/18

WE 06/18/18 07/26/18 01:00PM 04:50PM MTTH 110

WEL 06/18/18 07/26/18 05:00PM 05:50PM MTTH 121

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

## ENG-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)

36001

Last day to add: 06/22/18

HYB 06/18/18 07/25/18 02:00PM 05:50PM MW 206

HYBO 06/18/18 07/25/18 ON LINE

HYBLO 06/18/18 07/26/18 ON LINE

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: C Young

## ENG-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)

35998

Last day to add: 06/22/18

WE 06/18/18 07/26/18 04:00PM 07:50PM MTTH 122

WEL 06/18/18 07/26/18 08:00PM 08:50PM MTTH 125

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 Mansikka

## 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)

36007

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

OL Designated laboratory

ON LINE

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

Instructor: D Reade

## 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)

36005

Last day to add: 06/22/18

WE 06/18/18 07/26/18 09:00AM 12:50PM MTTH IT 110

WEL 06/18/18 07/26/18 01:00PM 01:50PM MTTH 121

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

## 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)

36006 Designated laboratory

Last day to add: 06/23/18

HYB 06/19/18 07/26/18 09:00AM 12:50PM TH ST 108

HYBO 06/19/18 07/26/18 ON LINE

HYBLO 06/19/18 07/26/18 ON LINE

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



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## 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.

36039

Last day to add: 06/22/18

LEC 06/18/18 07/26/18 10:35A 12:45PM TWTH WEQ W3

Instructor: V Genian

**KIN-10 Introduction to Kinesiology 3 UNITS**

Prerequisite: None.

Description: The study of human movement, sub-disciplines in Kinesiology and career opportunities.

36037

Last day to add: 06/22/18

LEC 06/18/18 07/26/18 01:30PM 03:40PM TWTH WEQ 3

Instructor: D Bednarczyk

**KIN-30 F**

# NORCO COLLEGE

**KIN-A64 Soccer** 1 UNIT  
 Prerequisite: None  
 Description: This course focuses on the 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.)  
 36042 Last day to add: 06/22/18  
 LAB 06/18/18 07/26/18 03:50PM 06:00PM T W T H S O R  
 Instructor: F Melgarejo

**KIN-A79A Jogging/Fitness/Beginning** 0.6 (T) 7.1 (r) 10 (equi) individual design (1) (sp) (uf) (2) (eg) (gr) (06/22/18) (is) (v) (17)-5 (th) (end) (ea) (9) (a) (4) (ops) (p) (4)

36132 Last day to add: 06/23/18  
 OL 06/18/18 07/26/18 ONLINE  
 See www.opencampus.com.  
 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)  
 36115 Last day to add: 06/23/18  
 OL 06/18/18 07/26/18 ONLINE  
 The above section is an online class. Computer with Internet access required.  
 See www.opencampus.com.  
 Instructor: R Beck

## 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.)  
 36046 Last day to add: 06/23/18  
 OL 06/18/18 07/26/18 ONLINE  
 The above section is an online class. Computer with Internet access required.  
 See www.opencampus.com.  
 Instructor: K Mosley

**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.)  
 36047 Last day to add: 06/22/18  
 LEC 06/18/18 07/26/18 08:00AM 09:25AM T W T H I T 124  
 LAB 06/18/18 07/26/18 09:35AM 12:25PM T W T H I T 124  
 Instructor: P Maluso



## 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)

36083

Last day to add: 06/22/18

WE 06/18/18 07/25/18 02:00PM 05:05PM MTWTEC 204

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

Instructor: T Malouf

## MAT-12 Statistics

4 UNITS

Prerequisite: MATH 101 or MATH 102 or MATH 103 or MATH 104 or MATH 105 or MATH 106 or MATH 107 or MATH 108 or MATH 109 or MATH 110 or MATH 111 or MATH 112 or MATH 113 or MATH 114 or MATH 115 or MATH 116 or MATH 117 or MATH 118 or MATH 119 or MATH 120 or MATH 121 or MATH 122 or MATH 123 or MATH 124 or MATH 125 or MATH 126 or MATH 127 or MATH 128 or MATH 129 or MATH 130 or MATH 131 or MATH 132 or MATH 133 or MATH 134 or MATH 135 or MATH 136 or MATH 137 or MATH 138 or MATH 139 or MATH 140 or MATH 141 or MATH 142 or MATH 143 or MATH 144 or MATH 145 or MATH 146 or MATH 147 or MATH 148 or MATH 149 or MATH 150 or MATH 151 or MATH 152 or MATH 153 or MATH 154 or MATH 155 or MATH 156 or MATH 157 or MATH 158 or MATH 159 or MATH 160 or MATH 161 or MATH 162 or MATH 163 or MATH 164 or MATH 165 or MATH 166 or MATH 167 or MATH 168 or MATH 169 or MATH 170 or MATH 171 or MATH 172 or MATH 173 or MATH 174 or MATH 175 or MATH 176 or MATH 177 or MATH 178 or MATH 179 or MATH 180 or MATH 181 or MATH 182 or MATH 183 or MATH 184 or MATH 185 or MATH 186 or MATH 187 or MATH 188 or MATH 189 or MATH 190 or MATH 191 or MATH 192 or MATH 193 or MATH 194 or MATH 195 or MATH 196 or MATH 197 or MATH 198 or MATH 199 or MATH 200 or MATH 201 or MATH 202 or MATH 203 or MATH 204 or MATH 205 or MATH 206 or MATH 207 or MATH 208 or MATH 209 or MATH 210 or MATH 211 or MATH 212 or MATH 213 or MATH 214 or MATH 215 or MATH 216 or MATH 217 or MATH 218 or MATH 219 or MATH 220 or MATH 221 or MATH 222 or MATH 223 or MATH 224 or MATH 225 or MATH 226 or MATH 227 or MATH 228 or MATH 229 or MATH 230 or MATH 231 or MATH 232 or MATH 233 or MATH 234 or MATH 235 or MATH 236 or MATH 237 or MATH 238 or MATH 239 or MATH 240 or MATH 241 or MATH 242 or MATH 243 or MATH 244 or MATH 245 or MATH 246 or MATH 247 or MATH 248 or MATH 249 or MATH 250 or MATH 251 or MATH 252 or MATH 253 or MATH 254 or MATH 255 or MATH 256 or MATH 257 or MATH 258 or MATH 259 or MATH 260 or MATH 261 or MATH 262 or MATH 263 or MATH 264 or MATH 265 or MATH 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Description: This course covers the theory and application of probability and statistics. Topics include: probability distributions, random variables, sampling distributions, confidence intervals, hypothesis testing, and regression analysis. 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.)

36089

Last day to add: 06/23/18

OL 06/18/18 07/26/18



The logo for NORCO COLLEGE is centered at the top of the page. It features the word "NORCO" in a large, bold, dark red serif font, with the word "COLLEGE" in a smaller, dark red sans-serif font directly below it. The logo is flanked by two horizontal bars of the same dark red color, one on the left and one on the right, extending towards the edges of the page.

# NORCO COLLEGE



# NORCO

COLLEGE



MUSIC

MUS-19

## 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.

36133

Last day to add: 06/23/18

## 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 on environmental problems. 54 hours lecture.

36054

Last day to add: 06/23/18

LEC 06/19/18 07/26/18 08:00AM 10:10AM MTWTH

LEC 06/19/18 07/26/18 08:00AM 10:10AM MTWTH HUM 201

## PHYSICS

### PHY-10 Introduction to General Physics

3 UNITS

Prerequisite: MAT-52

Description: A non-science major physics course covering mechanics, properties of matter, heat, sound, light, electricity and magnetism, and nuclear physics. 54 hours lecture.

36055

Last day to add: 06/22/18

LEC 06/18/18 07/26/18 10:35AM 12:45PM TWTWTH HUM 201

LEC 06/18/18 07/26/18 10:35AM 12:45PM TWTWTH HUM 201

## POLITICAL SCIENCE

### POL-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.

36056

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

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

See [www.opencampus.com](http://www.opencampus.com).

See [www.opencampus.com](http://www.opencampus.com).

### POL-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.

36059

Last day to add: 06/23/18

OL 06/18/18 07/26/18

ON LINE

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

See [www.opencampus.com](http://www.opencampus.com).

See [www.opencampus.com](http://www.opencampus.com).

**POL-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.

36058 Last day to add: 06/22/18

WE 06/18/18 07/26/18 10:35AM 12:45PM MTWTH IT 109

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

☎ : Sta

**POL-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.

36057 Last day to add: 06/22/18

WE 06/18/18 07/26/18 01:00PM 03:10PM MTWTH W7

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

☎ : Sta

**POL-4 Introduction to World Politics 3 UNITS**

Prerequisite: None  
 Advisory: Quali cation 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

**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.

36064 Last day to add: 06/23/18

OL 06/18/18 07/26/18 ON LINE

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

See [www.opencampus.com](http://www.opencampus.com).

☎ : Sta

**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.

36062 Last day to add: 06/22/18

WE 06/18/18 07/26/18 08:00AM 10:10AM MTWTH 09

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

☎ : Sta

**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.

36061 Last day to add: 06/22/18

WE 06/18/18 07/26/18 06:00PM 08:50PM MTWTH EC 114

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

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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.

36065 Last day to add: 06/22/18

WE 06/18/18 07/26/18 01:00PM 03:10PM MTWTH 09

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

☎ : Sta

**PSY-9 Developmental Psychology 3 UNITS**

Prerequisite: None  
 Description: This course examines the biological, social and environmental variable of human life-span development in the physical, cognitive, and psychosocial domains. Theory, research, and application of life span relevant material in psychology are presented. 54 hours lecture.

36068 Last day to add: 06/23/18

OL 06/18/18 07/26/18 ON LINE

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

See [www.opencampus.com](http://www.opencampus.com).

☎ : Sta

RLE-81



## SPA-1 Spanish 1 5 UNITS

Prerequisite: None

Advisory: Completion of placement test to assess level of proficiency in Spanish.  
Description: This course concentrates on developing basic skills in listening, reading, speaking and writing. Emphasis is placed on acquisition of vocabulary, structures and grammatical patterns necessary for comprehension of native spoken and written Spanish at the beginning level. This course includes discussion of Hispanic culture and daily life. Students may receive credit for only one of the following: SPA-1 or SPA-1H or SPA-1A and 1B. 90 hours lecture and 18 hours laboratory.(TBA option)(Letter Grade, or Pass/No Pass option.)

36077

Last day to add: 06/22/18

HYB 06/18/18 07/25/18 02:00PM 05:30PM MWLIBR 121

HYBO 06/18/18 07/25/18 ON LINE

HYBL 06/18/18 07/25/18 05:40PM 06:55PM MWLIBR 121

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

See [www.opencampus.com](http://www.opencampus.com).

Instructor: N Guillen

## SPA-2 Spanish 2 5 UNITS

Prerequisite: SPA-1B or SPA-1 or SPA-1H, or qualifying placement level on the

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Transforming lives at

**NORCO**  
COLLEGE

# NC

## STUDENT SPOTLIGHT

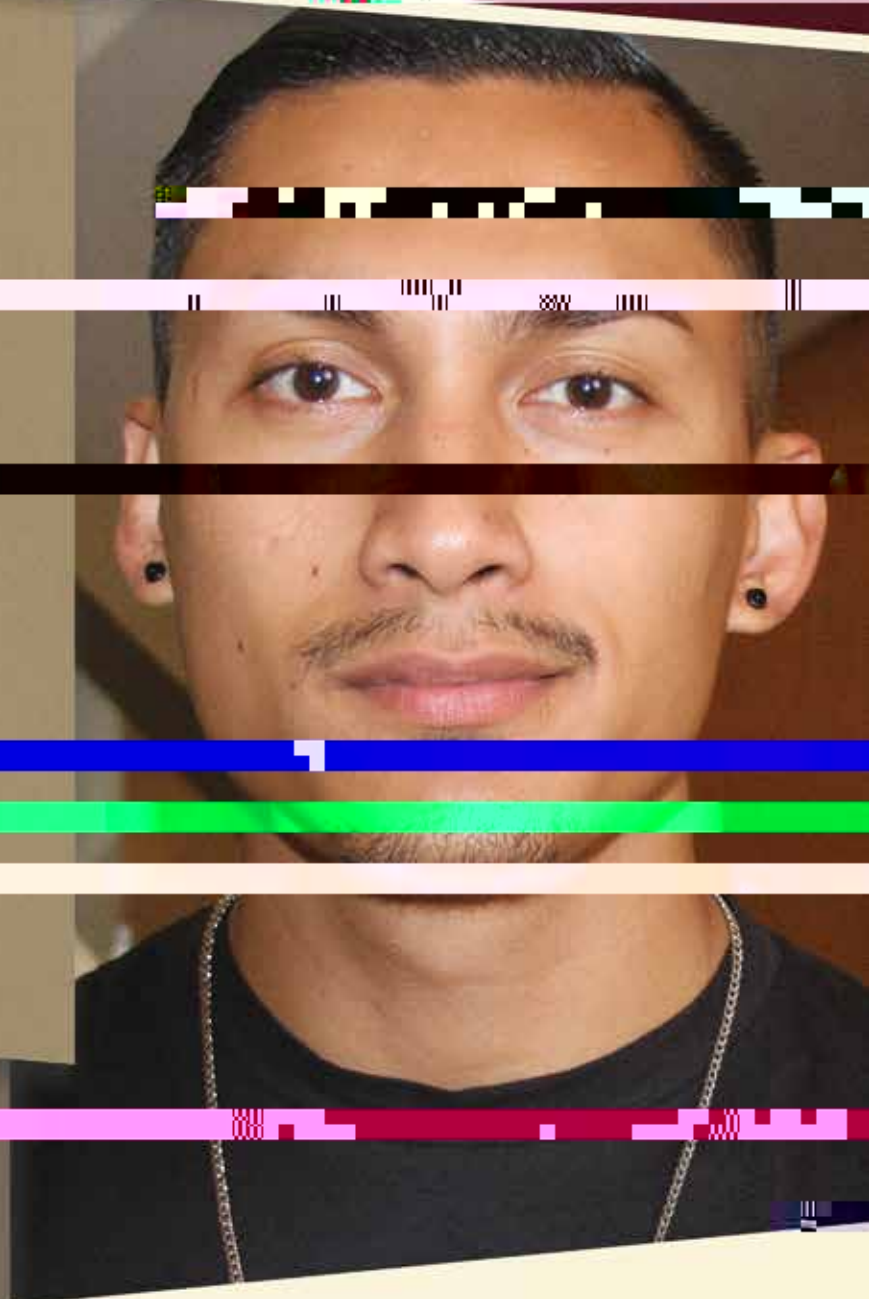
I am a veteran of the United States Navy and served two years overseas before leaving the military. I always wanted to attend college and chose Norco College for its welcoming of veterans as well as services and resources.

My plan was to become a police officer and I looked into joining the police force before enrolling in college. After taking a few classes in health and nutrition, I decided to switch my focus and become a kinesiology major with the career goal of being a physical therapist.

During my time at Norco College, I worked for the Veterans Resource Center and made friends. This was instrumental in my success on achieving my goals and learning that I could dream big and not limit myself to anything.

I transferred to California State University, San Bernardino to earn my bachelor's degree in kinesiology.

My name is Calvin Klein Gloria and Norco College transformed my life.



**Kinesiology**  
School of STEM

U.S. Navy Veteran

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