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.

CLASSES BEGIN JANUARY 2, 2018

WWW.NORCOCOLLEGE.EDU
Welcome to the Winter session, Mustangs!

We are excited to introduce our four schools – School of Arts & Humanities, School of STEM, School of Social & Behavioral Sciences and the School of Business and Management. I invite you to find your school and explore the numerous pathways available during the 2018 winter session. Choosing a school is the first step toward finding a program that is right for you.

Norco College provides students with a high-quality education that leads to jobs and advanced education. Do not let financial issues keep you from attending college; federal financial aid is available for qualified students, as are scholarships through the RCCD Foundation. Our staff is committed to academic excellence and success for all our students.

I wish you the best in your educational endeavors. We are committed to helping you reach your academic goals.

Bryan Reece, Ph.D.
President
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.

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ACCOUNTING

ACC-66  Non-Profit/Govt Acctg  3 UNITS
A study of the principles and practices of non-profit governmental entities fund accounting.
PREREQUISITE: ACC-1A.
ADVISORY: BUS-20.
31022  Last day to add: 01/07/18
OL  01/02/18  02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: P Worsham

ADMINISTRATION OF JUSTICE

ADJ-1  Introduction Administration of Justice  3 UNITS
The history and philosophy of administration of justice in America. (Same as JUS-1)
PREREQUISITE: None.
31023  Last day to add: 01/06/18
WE  01/02/18  02/08/18  06:10PM  09:00PM  MTWTH  ATEC 205
The above section is a web-enhanced class. Internet access is required.
Instructor: S Williams

ANATOMY AND PHYSIOLOGY

AMY-2A  Anatomy and Physiology I  4 UNITS
An integrated study of body organization and terminology, cells and tissues, skeletal and muscular systems, and eye and ear.
PREREQUISITE: BIO-1 or 1H.
31025  Last day to add: 01/06/18
WE  01/02/18  02/08/18  08:00AM  09:20AM  MTWTH  ST 207
WEL  01/02/18  02/08/18  09:30AM  02:05PM  MTWTH  ST 207
The above section is a web-enhanced class. Internet access is required.
Instructor: P Campo

AMY-10  Survey Human Anat/Physio  3 UNITS
For Allied Health majors: a survey of the structure and function of human cells, tissues and systems.
PREREQUISITE: None.
31024  Last day to add: 01/06/18
LEC  01/02/18  02/08/18  10:25AM  12:40PM  MTWTH  IT 101
The above section is an online class. Computer with Internet access required.
Instructor: G Johansen

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! www.norcocollegebookstore.com
ART-17  
**Beginning Drawing**  
3 UNITS  
Introduction to drawing in a variety of media. Exploration of the elements of art, composition, perspective, including development of observational, motor and creative skills.  
PREREQUISITE: None.  
31029  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 08:00AM 09:20AM MTWTH ATEC 209  
WEL 01/02/18 02/08/18 09:30AM 12:35PM MTWTH ATEC 209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Q Bemiller

ART-17  
**Beginning Drawing**  
3 UNITS  
Introduction to drawing in a variety of media. Exploration of the elements of art, composition, perspective, including development of observational, motor and creative skills.  
PREREQUISITE: None.  
31030  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 12:40PM 02:00PM MTWTH IT 117  
WEL 01/02/18 02/08/18 02:10PM 05:15PM MTWTH ATEC 209  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** B May

ANTHROPOLOGY

**ANT-1  Physical Anthropology**  
3 UNITS  
Examination of human biological evolution and physical diversity, incorporating genetics, primates, fossils, and relationship to the animal world.  
PREREQUISITE: None.  
31027  Last day to add: 01/07/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**Instructor:** A Gray

**ANT-1  Physical Anthropology**  
3 UNITS  
Examination of human biological evolution and physical diversity, incorporating genetics, primates, fossils, and relationship to the animal world.  
PREREQUISITE: None.  
31026  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 10:25AM 12:40PM MTWTH HUM 111  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** A Mejia

BIOLOGY

**BIO-1  General Biology**  
4 UNITS  
A study of life as revealed in biological systems using cellular, organismal and ecological approaches. The basic principles of cellular biology, biochemistry, genetics, evolution, ecology and the social implications of biology.  
PREREQUISITE: None.  
31033  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 117  
WEL 01/02/18 02/08/18 07:15AM 09:30AM MTWTH IT 128  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** C Wilson

**BIO-1  General Biology**  
4 UNITS  
A study of life as revealed in biological systems using cellular, organismal and ecological approaches. The basic principles of cellular biology, biochemistry, genetics, evolution, ecology and the social implications of biology.  
PREREQUISITE: None.  
31035  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 07:15AM 09:30AM MTWTH IT 128  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** C Wilson

ART

**ART-2  Hist Art: Renaiss/Contemp**  
3 UNITS  
Survey of the history of Western art: Renaissance through Contemporary.  
PREREQUISITE: None.  
ADVISORY: Qualification for ENG-1A.  
31031  Last day to add: 01/06/18  
WE 01/02/18 02/08/18 12:50PM 03:05PM MTWTH ATEC 114  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** Staff

**ART-6  Art Appreciation**  
3 UNITS  
An introductory course for the non-art major. An overview of the creative process and various art forms.  
PREREQUISITE: None.  
ADVISORY: Qualification for ENG-1A.  
31032  Last day to add: 01/07/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**Instructor:** Q Bemiller
BIO-1  General Biology  4 UNITS
A study of life as revealed in biological systems using cellular, organismal and ecological approaches. The basic principles of cellular biology, biochemistry, genetics, evolution, ecology and the social implications of biology.
PREREQUISITE: None.
31198  Last day to add: 01/06/18
WE 01/02/18 02/08/18 10:25AM 12:40PM MTWTH THTR 101
WEL 01/02/18 02/08/18 04:15PM 05:30PM MTWTH ST 203
The above section is a web-enhanced class. Internet access is required.
Instructor: J Julius

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31036  Last day to add: 01/07/18
OL 01/02/18 02/08/18 08:00AM 10:15AM MTWTH ATEC 204
The above section is an online class. Computer with Internet access required.
Instructor: G Zwart

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31037  Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH ATEC 109
WE 01/02/18 02/08/18 05:00PM 07:15PM MTWTH IT 128
The above section is a web-enhanced class. Internet access is required.
Instructor: J Drainville

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31038  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: J Drainville

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31039  Last day to add: 01/06/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: J Drainville

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31040  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: J Drainville

BUS-10  Intro to Business  3 UNITS
Considers scope, function and organization of business, including principles and practices, with an integrated global perspective.
PREREQUISITE: None.
31041  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: R Beck

BUS-18A  Business Law I  3 UNITS
Legal and ethical environment of business torts, contracts, sales and principles of employment.
PREREQUISITE: None.
31034  Last day to add: 01/06/18
WE 01/02/18 02/08/18 05:00PM 07:15PM MTWTH IT 128
WEL 01/02/18 02/08/18 07:25PM 09:40PM MTWTH IT 128
The above section is a web-enhanced class. Internet access is required.
Instructor: J Drainville

BUS-20  Business Math  3 UNITS
Introduces math based approaches to solving common business problems. Includes the areas of business statistics, pricing, payroll, taxes, interest, personal finance, and business finance.
PREREQUISITE: None.
31035  Last day to add: 01/06/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: T Wagner

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31036  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31037  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31038  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31039  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31040  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

BUS-24  Business Communication  3 UNITS
This course 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.
PREREQUISITE: ENG-1A OR 1AH.
31041  Last day to add: 01/07/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: E Doucette

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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CHEMISTRY

CHE-2A  Intro Chemistry I  4 UNITS
Introductory chemical concepts with health and environmental applications; fulfills the needs of non-science majors.
PREREQUISITE: MAT-52.
31046  Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 101
WEL 01/02/18 02/08/18 10:25AM 12:40PM MTWTH HUM 204
The above section is a web-enhanced class. Internet access is required.
Instructor: V Lee

CHE-2A  Intro Chemistry I  4 UNITS
Introductory chemical concepts with health and environmental applications; fulfills the needs of non-science majors.
PREREQUISITE: MAT-52.
31047  Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 101
WEL 01/02/18 02/08/18 10:15PM 03:30PM MTWTH HUM 204
The above section is a web-enhanced class. Internet access is required.
Instructor: W Cui

COMPUTER INFORMATION SYSTEMS

CIS-1A  Intro to Comp Info Sys  3 UNITS
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.
PREREQUISITE: None.
31049  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
OLL 01/02/18 02/08/18 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 requirement, are completed online.
Instructor: J Perry
CIS-1A  Intro to Comp Info Sys  3 UNITS
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.
PREREQUISITE: None.
31050  Last day to add: 01/07/18
OL  01/02/18  02/08/18  ON LINE
OLL  01/02/18  02/08/18  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 requirement, are completed online.
Instructor: C Brotherton

CIS-1A  Intro to Comp Info Sys  3 UNITS
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.
PREREQUISITE: None.
31208  Last day to add: 01/05/18
HYB  01/05/18  02/02/18  08:00AM  01:10PM  F  ATEC 118
HYBO  01/05/18  02/02/18  ON LINE
HYBL  01/05/18  02/02/18  01:20PM  02:50PM  F  ATEC 118
HYBLO  01/05/18  02/02/18  ON LINE
The above section is a hybrid class and has an 18-hour laboratory requirement to be completed face to face and online. Computer with Internet access required. See www.opencampus.com.
Instructor: B Fuller

CIS-5  Programming Concepts and Methodology I C++  4 UNITS
Introduction to computer science for gaming, business, scientific and mathematical applications using C++. (Same as CSC-5)
PREREQUISITE: None.
ADVISORY: CIS-1A.
31188  Last day to add: 01/07/18
OL  01/02/18  02/08/18  ON LINE
OLL  01/02/18  02/08/18  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 requirement, are completed online.
Instructor: J Perry

CIS-17A  Prog Concepts and Methodology II: C++  3 UNITS
Object-Oriented program development using C++. (Same as CSC-17A)
PREREQUISITE: CIS/CSC-5.
31187  Last day to add: 01/06/18
WE  01/02/18  02/08/18  08:00AM  10:15AM  MTWTH  ATEC 118
WEL  01/02/18  02/08/18  10:25AM  12:35PM  MTWTH  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: T Pyor

CIS-78A  Intro Adobe Photoshop  3 UNITS
Introduction to Adobe Photoshop including selections, layers, masks, channels and vector art for manipulating images. (Same as CAT-78A)
PREREQUISITE: None.
31053  Last day to add: 01/06/18
WE  01/02/18  02/08/18  06:00PM  08:50PM  TWTH  IT 127
WEL  01/02/18  02/08/18  09:00PM  09:50PM  TWTH  IT 127
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
COMMUNICATION STUDIES

COM-1  Public Speaking  3 UNITS
Prepare, present and evaluate a variety of speeches.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31057  Last day to add: 01/07/18
LEC 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 211
Instructor: A Olaerts

COM-9  Interpersonal Communication  3 UNITS
Analyzes the dynamics, components and ethics of the two-person communication process in relationships.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31058  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 10:25AM 12:40PM MTWTH IT 211
Instructor: M Lewis

COM-1  Public Speaking  3 UNITS
Prepare, present and evaluate a variety of speeches.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31190  Last day to add: 01/05/18
HYB 01/02/18 02/07/18 12:50PM 03:05PM MW LIBR 110
HYBO 01/02/18 02/07/18  ON LINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: B Rihan

COM-9  Interpersonal Communication  3 UNITS
Analyzes the dynamics, components and ethics of the two-person communication process in relationships.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31059  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 10:15AM MTWTH IT 211
Instructor: M Lewis

COM-1  Public Speaking  3 UNITS
Prepare, present and evaluate a variety of speeches.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31054  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 12:50PM 03:05PM MTWTH IT 211
Instructor: J Muto

COM-1  Public Speaking  3 UNITS
Prepare, present and evaluate a variety of speeches.
PREREQUISITE: None.
ADVISORY: COM-51 and/or qualification for ENG-1A.
31056  Last day to add: 01/06/18
HYB 01/02/18 02/08/18 06:00PM 08:15PM TTH LIBR 110
HYBO 01/02/18 02/08/18  ON LINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: J Muto

CONSTRUCTION TECHNOLOGY

CON-60  Intro to Construction  3 UNITS
Introduction to materials, techniques and sources of information in building construction.
PREREQUISITE: None.
31060  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 06:00PM 08:50PM TWTH IT 123
Instructor: H Lindner
EARLY CHILDHOOD EDUCATION

EAR-20 Child Growth and Development 3 UNITS
A comprehensive overview of concepts, issues and theories of human development from conception through adolescence.
PREREQUISITE: None.
31063 Last day to add: 01/07/18
OL 01/02/18 02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: S Burnett

EAR-24 Introduction to Curriculum 3 UNITS
An overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6.
PREREQUISITE: None.
31183 Last day to add: 01/06/18
OL 01/02/18 02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: L Vazquez

EAR-26 Health, Safety and Nutrition 3 UNITS
A study of health, safety and nutrition factors of importance to the teacher, child and family of the young child.
PREREQUISITE: None.
31183 Last day to add: 01/07/18
OL 01/02/18 02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: B Zentgraf

EAR-28 Principles and Practices 3 UNITS
An examination of the underlying theoretical principles of developmentally appropriate practices as they apply to various aspects of early childhood education.
PREREQUISITE: None.
31065 Last day to add: 01/07/18
OL 01/02/18 02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: S Sumiati

EAR-42 Child, Family, and Community 3 UNITS
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.
PREREQUISITE: None.
31066 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 10:25AM 12:40PM MTWTH IT 209
Instructor: M Adams

ECONOMICS

ECO-7 Principles of Macroeconomics 3 UNITS
Economic theory and analysis as applied to the U.S. economy as a whole.
PREREQUISITE: MAT-52.
ADVISORY: MAT-35 and qualification for ENG-1A.
31067 Last day to add: 01/06/18
WE 01/02/18 02/08/18 10:25AM 12:40PM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: P Boelman

ELECTRONICS

ELE-11 DC Electronics 4 UNITS
Basic DC electrical theory, devices, circuits and applications including resistors, capacitors, coils and motors.
PREREQUISITE: None.
31068 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 05:00PM 07:35PM MTWTH STEM 302
LAB 01/02/18 02/08/18 07:45PM 08:50PM MTWTH STEM 302
Instructor: S Chng

ELE-13 AC Electronics 4 UNITS
Alternating Current (AC) theory, devices, circuits, applications, calculations and measurements of various parameters.
PREREQUISITE: ELE-10 or 11 or 21 or 23.
31069 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 01:40PM 04:15PM MTWTH ATEC 119
LAB 01/02/18 02/08/18 04:25PM 05:30PM MTWTH ATEC 119
Instructor: G Graham

ENGINEERING

ENE-42 Solidworks I 3 UNITS
Basic parametric solid modeling techniques using SolidWorks and advancing into complex assemblies requiring animation.
PREREQUISITE: None.
ADVISORY: PC computer experience.
31073 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 04:45PM 05:50PM MTWTH IT 125
LAB 01/02/18 02/08/18 06:00PM 09:50PM MTWTH IT 125
Instructor: J Sommerville
ENGLISH

Moving through English,

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

**ENGLISH 60A**
- There is no PREREQUISITE; the course is open to all students. It is strongly recommended that students register in an appropriate composition course (ENG-60A, 60B, 80, 50, or ENG-1A) during their first semester of enrollment. See “Moving through English” for more details.

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

**ENGLISH 60A**
- There is no PREREQUISITE; the course is open to all students. It is strongly recommended that students register in an appropriate composition course (ENG-60A, 60B, 80, 50, or ENG-1A) during their first semester of enrollment. See “Moving through English” for more details.
ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31076  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
OLL 01/02/18 02/08/18 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 requirement, are completed online.
Instructor: M Bader

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31079  Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 11:50AM TWTH IT 108
WEL 01/02/18 02/08/18 07:00AM 07:50AM TWTH IT 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: A Elizalde

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31080  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 11:50AM TWTH ST 108
LAB 01/02/18 02/08/18 12:00PM 12:50PM TWTH IT 121
Designated laboratory hours are included in the meeting times for this class.
Instructor: G Roller

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31078  Last day to add: 01/06/18
WE 01/02/18 02/08/18 10:00AM 01:50PM TWTH HUM 102
WEL 01/02/18 02/08/18 09:00AM 09:50AM TWTH IT 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: S Hanson

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31022  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 12:00PM 03:50PM TWTH IT 108
LAB 01/02/18 02/08/18 11:00AM 11:50AM TWTH IT 121
Designated laboratory hours are included in the meeting times for this class.
Instructor: T Wallace
ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31077  Last day to add: 01/06/18
WE 01/02/18 02/08/18 04:00PM 07:50PM TWTH IT 108
WEL 01/02/18 02/08/18 08:00PM 08:50PM TWTH IT 121
The above section is web-enhanced class. Designated laboratory hours are included in the meeting times for this class.
Instructor: D Mattson

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31206  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 04:00PM 07:50PM TWTH IT 208
LAB 01/02/18 02/08/18 03:00PM 03:50PM TWTH IT 127
Designated laboratory hours are included in the meeting times for this class.
Instructor: Staff

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31207  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 04:00PM 07:50PM TWTH LIBR 109
LAB 01/02/18 02/08/18 03:00PM 03:50PM TWTH IT 121
Designated laboratory hours are included in the meeting times for this class.
Instructor: Staff

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31082  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 04:40PM 08:30PM TWTH IT 211
LAB 01/02/18 02/08/18 03:40PM 04:30PM TWTH IT 125
Designated laboratory hours are included in the meeting times for this class.
Instructor: J Lovell

ENG-1A  English Composition  4 UNITS
Teaches college-level critical reading, academic writing, and research skills.
PREREQUISITE: ENG-50 or 80 or qualifying placement level.
31083  Last day to add: 01/06/18
WE 01/02/18 02/08/18 05:00PM 08:50PM TWTH IT 210
WEL 01/02/18 02/08/18 04:00PM 04:50PM TWTH IT 127
Designated laboratory hours are included in the meeting times for this class.
Instructor: E Rossi

ENG-1B  Critical Thinking/Writing  4 UNITS
Emphasizing argument, analysis and the study of literature, this course develops students’ critical thinking, reading, and writing skills beyond the level achieved in ENG-1A.
PREREQUISITE: ENG-1A or 1AH.
31203  Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
OLL 01/02/18 02/08/18 ON LINE
The above section is online class. Computer with Internet access required.
See www.opencampus.com. All hours, including the 18-hour laboratory requirement, are completed online.
Instructor: D Reade

ENG-1B  Critical Thinking/Writing  4 UNITS
Emphasizing argument, analysis and the study of literature, this course develops students’ critical thinking, reading, and writing skills beyond the level achieved in ENG-1A.
PREREQUISITE: ENG-1A or 1AH.
31204  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 11:50AM TWTH IT 208
LAB 01/02/18 02/08/18 12:00PM 12:50PM TWTH IT 127
Designated laboratory hours are included in the meeting times for this class.
Instructor: R Marsh

ENG-1B  Critical Thinking/Writing  4 UNITS
Emphasizing argument, analysis and the study of literature, this course develops students’ critical thinking, reading, and writing skills beyond the level achieved in ENG-1A.
PREREQUISITE: ENG-1A or 1AH.
31087  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 09:00AM 12:50PM TWTH IT 123
LAB 01/02/18 02/08/18 01:00PM 01:50PM TWTH IT 121
Designated laboratory hours are included in the meeting times for this class.
Instructor: D Mills

ENG-1B  Critical Thinking/Writing  4 UNITS
Emphasizing argument, analysis and the study of literature, this course develops students’ critical thinking, reading, and writing skills beyond the level achieved in ENG-1A.
PREREQUISITE: ENG-1A or 1AH.
31089  Last day to add: 01/05/18
HYB 01/03/18 02/07/18 11:00AM 02:50PM MW IT 110
HYBO 01/03/18 02/07/18 ON LINE
HYBLO 01/03/18 02/07/18 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: 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 - WebEnhanced Lecture • WEL - WebEnhanced Lab • WRX - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

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ENG-1B  Critical Thinking/Writing  4 UNITS
Emphasizing argument, analysis and the study of literature, this course develops students’ critical thinking, reading, and writing skills beyond the level achieved in ENG-1A.
PREREQUISITE: ENG-1A or 1AH.
31086  Last day to add: 01/06/18
LEC 01/02/18 02/08/18 11:00AM 02:50PM TWTH IT 206
LAB 01/02/18 02/08/18 10:00AM 10:50AM TWTH IT 121
Designated laboratory hours are included in the meeting times for this class.
Instructor: N Capps

ENG-50  Basic English Comp  4 UNITS
Prepares students for college-level reading and academic writing.
PREREQUISITE: ENG-60B, ESL-55 or qualifying placement level.
ADVISORY: REA-82 or qualifying placement level.
31095  Last day to add: 01/06/18
HYB 01/02/18 02/08/18 12:50PM 04:40PM TH IT 122
HYBO 01/02/18 02/08/18 ON LINE
HYBLO 01/02/18 02/08/18 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: A Moore

ENG-60A  Engl Fund: Sent to Paragraph  4 UNITS
This course instills basic writing, reading, and grammar skills via sentence and paragraph writing. (Non-degree credit course. Pass/No Pass only.)
PREREQUISITE: None.
31097  Last day to add: 01/06/18
WE 01/02/18 02/08/18 12:00PM 03:50PM TWTH ST 108
WEL 01/02/18 02/08/18 04:00PM 04:50PM TWTH IT 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: J Reed

ENG-60B  Engl Fund: Paragraph to Essay  4 UNITS
This course advances basic reading, writing, and grammar skills via the production of paragraphs and short essays. (Non-degree credit course. Pass/No Pass only.)
PREREQUISITE: ENG-60A or qualifying placement level.
31100  Last day to add: 01/06/18
WE 01/02/18 02/08/18 03:00PM 06:50PM TWTH IT 110
WEL 01/02/18 02/08/18 02:00PM 02:50PM TWTH IT 127
Designated laboratory hours are included in the meeting times for this class.
Instructor: J Hill

ENGLISH AS A SECOND LANGUAGE

ESL ONE-STOP DATES
(NEW ESL STUDENTS MUST TAKE PTESL TEST)
We offer “ESL One-Stop” sessions. You can take the ESL placement test and attend a college orientation on the same date. An ESL One-Stop session takes about 3 ½ hours.
To schedule an appointment:
1. Go to www.norcocolllege.edu
2. Click on Students
3. Under Enrollment Services, click on Assessment
4. Click on Make an Appointment
5. Scroll to bottom of the page and click on Make An Appointment to access the online appointment system.
Complete testing schedules are available at: www.norcocolllege.edu/services/assessment/Pages/MakeAnAppointment.aspx
Please check the calendar and then use the online appointment system to choose your appointment. If you need to speak with someone directly, please call the Norco College Assessment Center at (951) 372-7176.
### GEOGRAPHY

**GEG-1 Physical Geography**  
3 UNITS  
The interacting physical processes of air, water, land, and life which impact Earth's surface.  
PREREQUISITE: None.  
31107 Last day to add: 01/06/18  
LEC 01/02/18 02/08/18 12:50PM-03:05PM MTWTH ATEC 205  
Instructor: R Christov

**GEG-1L Physical Geography Lab**  
1 UNIT  
Practical application of physical geography principles through geographically based in-class exercises.  
PREREQUISITE: None.  
COREQUISITE: Concurrent enrollment in or prior completion of GEG-1 or 1H.  
31108 Last day to add: 01/06/18  
LAB 01/02/18 02/08/18 03:15PM-05:30PM MTWTH ATEC 205  
Instructor: R Christov

### GUIDANCE

**GUI-47 Career Explor/Life Planning**  
3 UNITS  
Designed to assist those students considering the transition of a career change or undecided about the selection of a college major.  
PREREQUISITE: None.  
31109 Last day to add: 01/06/18  
LEC 01/02/18 02/08/18 10:25AM-12:40PM MTWTH ATEC 205  
Instructor: Staff

**GUI-47 Career Explor/Life Planning**  
3 UNITS  
Designed to assist those students considering the transition of a career change or undecided about the selection of a college major.  
PREREQUISITE: None.  
31110 Last day to add: 01/06/18  
LEC 01/02/18 02/08/18 10:25AM-12:40PM MTWTH ATEC 205  
Instructor: Staff

### GAME DEVELOPMENT

**GAM-21 History of Video Games**  
3 UNITS  
A comprehensive study of the evolution of video games throughout history including arcade games, console games, computer games and mobile applications.  
PREREQUISITE: None.  
31103 Last day to add: 01/06/18  
WE 01/02/18 02/08/18 08:00AM-11:05AM TWTH IT 106  
The above section is a web-enhanced class. Internet access is required.  
Instructor: J Coverdale

**GAM-35 Intro Computer Game Dev**  
3 UNITS  
An introduction to computer gaming. Students will explore the job market, career paths and business aspects of gaming professions.  
PREREQUISITE: None.  
31104 Last day to add: 01/07/18  
OL 01/02/18 02/08/18 ON LINE  
The above section is an online class. Computer with Internet access required.  
Instructor: J Finley

**GAM-50 Introduction to Game Programming**  
3 UNITS  
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)  
PREREQUISITE: None.  
31105 Last day to add: 01/07/18  
OL 01/02/18 02/08/18 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 requirement, are completed online.  
Instructor: J Finley

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HEALTH SCIENCE

HES-1 Health Science 3 UNITS
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.
PREREQUISITE: None.
31111 Last day to add: 01/06/18
Instructor: T Wallstrom

HES-1 Health Science 3 UNITS
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.
PREREQUISITE: None.
31112 Last day to add: 01/06/18
Instructor: T Wallstrom

HISTORY

HIS-7 Pol Soc History of US 3 UNITS
A history of the United States from 1877 to the present.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31117 Last day to add: 01/07/18
OL 01/02/18 02/08/18
ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: D Reina

HIS-7 Pol Soc History of US 3 UNITS
A history of the United States from 1877 to the present.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31116 Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH HUM 103
The above section is a web-enhanced class. Internet access is required.
Instructor: T Russell

HIS-7 Pol Soc History of US 3 UNITS
A history of the United States from 1877 to the present.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31118 Last day to add: 01/06/18
WE 01/02/18 02/08/18 12:50PM 03:05PM MTWTH HUM 103
The above section is a web-enhanced class. Internet access is required.
Instructor: H Vion

HIS-6 Pol Soc Hist of US 3 UNITS
A history of the United States from Colonial time to 1877.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31114 Last day to add: 01/06/18
WE 01/02/18 02/08/18 10:25AM 12:40PM MTWTH HUM 103
The above section is a web-enhanced class. Internet access is required.
Instructor: H Vion

HIS-6 Pol Soc Hist of US 3 UNITS
A history of the United States from Colonial time to 1877.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31113 Last day to add: 01/06/18
WE 01/02/18 02/08/18 06:00PM 08:50PM TWTH HUM 103
The above section is a web-enhanced class. Internet access is required.
Instructor: T Russell

HIS-7 Pol Soc History of US 3 UNITS
A history of the United States from 1877 to the present.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31115 Last day to add: 01/07/18
OL 01/02/18 02/08/18
ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: D Reina

HUMANITIES

HUM-5 Arts and Ideas: Renaissance to Modern Era 3 UNITS
An interdisciplinary study of the origins of movements in art, literature, music, philosophy, photography, cinema, media, and religion in Western civilization from the Renaissance through the post-Modern era.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31176 Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH ATEC 114
The above section is a web-enhanced class. Internet access is required.
Instructor: M Bobo

HUM-10 World Religions 3 UNITS
Concepts of major religions including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam.
PREREQUISITE: None.
ADVISORY: REA-83 and qualification for ENG-1A.
31119 Last day to add: 01/06/18
WE 01/02/18 02/08/18 10:35AM 12:50PM MTWTH IT 117
The above section is a web-enhanced class. Internet access is required.
Instructor: M Bobo

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 • WRX - Work Experience Lecture • WRKH - Hybrid Work Experience • WRKO - Work Experience Online

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JAPANESE

JPN-1  Japanese 1  5 UNITS
Develops basic skills in understanding, reading, communicating, and writing in
Japanese.
PREREQUISITE: None.
31177  Last day to add: 01/06/18
WE  01/02/18  02/08/18  02:00PM  06:50PM  MTWTH  LIBR 121
WEL  01/02/18  02/08/18  07:00PM  07:50PM  MTWTH  LIBR 121
The above section is a web-enhanced class. Internet access is required.
Instructor: C Dealba-Yount

KINESIOLOGY

KIN-4  Nutrition  3 UNITS
Principles of basic nutrition and their application to health and diseases.
PREREQUISITE: None.
31120  Last day to add: 01/06/18
LEC  01/02/18  02/08/18  08:00AM  10:15AM  MTWTH  WEQ W5
Instructor: T Wallstrom

KIN-A40  Karate, Beginning  1 UNIT
Develops basic skills needed for unarmed self-defense by using shifting,
blocking, punching and kicking.
PREREQUISITE: None.
31121  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  12:50PM  03:05PM  MTWTH  WEQ W2
Instructor: D Namekata

KIN-A41  Karate, Intermediate  1 UNIT
Reviews basic skills and develops intermediate level skills in karate and self-
defense.
PREREQUISITE: None.
ADVISORY: Course is designed for students with proficient skills in blocking,
shifting, punching, striking and kicking and the knowledge of basic katas or for
those who have completed KIN-A40.
31122  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  12:50PM  03:05PM  MTWTH  WEQ W2
Instructor: D Namekata

KIN-A46  Hatha Yoga, Beginning  1 UNIT
Develops physical and mental wellness by exercises for breathing,
concentration, flexibility, strength and relaxation.
PREREQUISITE: None.
31123  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  10:25AM  12:40PM  MTWTH  WEQ W2
Instructor: L Zank

KIN-A47  Hatha Yoga, Intermediate  1 UNIT
Develops physical and mental wellness by intermediate level exercises for
breathing, concentration, flexibility, strength and relaxation.
PREREQUISITE: None.
ADVISORY: KIN-A46.
31124  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  10:25AM  12:40PM  MTWTH  WEQ W2
Instructor: L Zank

KIN-A64  Soccer  1 UNIT
Introduces rules, basic skills, offensive and defensive strategies, and competition
in soccer.
PREREQUISITE: None.
31125  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  03:15PM  05:30PM  MTWTH  SOCR 2
Instructor: F Melgarejo

KIN-A77A  Jogging for Fitness, Beginning  1 UNIT
Introduces basic fitness concepts through jogging.
PREREQUISITE: None.
31197  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  08:00AM  10:15AM  MTWTH  WEQ W8
Instructor: S Witmer

KIN-A81A  Physical Fitness, Beginning  1 UNIT
Provides beginning concepts for total fitness and develops personalized
exercise programs for cardiovascular endurance, strength and flexibility.
PREREQUISITE: None.
31126  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  10:25AM  12:40PM  MTWTH  WEQ W8
Instructor: S Witmer

KIN-A81B  Physical Fitness, Intermediate  1 UNIT
Provides concepts for total fitness and develops personalized exercise
programs for cardiovascular endurance, strength and flexibility.
PREREQUISITE: None.
ADVISORY: Course is designed for students with proficient skills in blocking,
shifting, punching, striking and kicking and the knowledge of basic katas or for
those who have completed KIN-A40.
31196  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  06:00PM  08:50PM  TWTH  WEQ W8
Instructor: D Bednarczyk

KIN-A84  Karate, Beginning  1 UNIT
Develops basic skills needed for unarmed self-defense by using shifting,
blocking, punching and kicking.
PREREQUISITE: None.
31122  Last day to add: 01/06/18
LAB  01/02/18  02/08/18  12:50PM  03:05PM  MTWTH  WEQ W2
Instructor: D Namekata

MANAGEMENT

MAG-44  Principles of Management  3 UNITS
An overview of the concepts, processes and techniques of organizational
management.
PREREQUISITE: None.
31129  Last day to add: 01/06/18
HYB  01/02/18  02/08/18  10:25AM  12:30PM  TTH  LIBR 108
HYB  01/02/18  02/08/18  06:00PM  08:00PM  TWTH  WEQ W2
HYB  01/02/18  02/08/18  06:00PM  08:00PM  TWTH  WEQ W2
Instructor: D Dokter

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MAN-55 OSHA Standards for Industry 2 UNITS
OSHA policies, procedures and standards, as well as safety for general industry and health principles. Topics include scope and application of the OSHA standards for general industry.
PREREQUISITE: None.
31132 Last day to add: 01/07/18
OL 01/02/18 02/08/18
The above section is an online class. Computer with Internet access required.
Instructor: P Van Hulle

MAN-60 Hydraulic/Pneumatic Systems 3 UNITS
Overview of basic pressurized fluid systems in engineering, manufacturing, robotic and industrial equipment systems are presented.
PREREQUISITE: None.
ADVISORY: ENE-60 or MAT-52.
31133 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 09:30AM MTWTH IT 124
LAB 01/02/18 02/08/18 09:40AM 12:45PM MTWTH IT 124
Instructor: Staff

MAN-68 Fundamentals of Maintenance 4 UNITS
Foundational skills training for maintenance technicians. Introduction to the basic maintenance and repair methods used in the facility maintenance profession. Preventative maintenance methods and strategies are explored as students receive training in the use of electronic measuring devices, meters, and scopes. Topics include activities focused upon basic electrical skills, basic pneumatics and hydraulics, basic mechanical skills, basic plumbing, basic principles of refrigeration, refrigerants, refrigeration components, preventative and corrective maintenance. Completion of this basic course will prepare students for a job as a Facility Maintenance Technician. 54 hours lecture and 54 hours laboratory. (Letter Grade, or Pass/No Pass option.)
31185 Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 11:05AM MTWTH ATEC 119
LAB 01/02/18 02/08/18 11:15AM 01:30PM MTWTH ATEC 119
Instructor: T Childers

MATHEMATICS

Moving through Math

MAT-65 Arithmetic & Pre-Algebra No
MAT-64 Pre-Algebra Prereq: MAT-63
MAT-52** Elem. Algebra Prereq: MAT-64 or 65
MAT-53** Geometry Prereq: MAT-52
MAT-52*** Intermediate Algebra Prereq: MAT-52
MAT-36*** Trigonometry Prereq: MAT-35 & 53
MAT-10* Pre-Calculus Prereq: MAT-36
MAT-1A* Calculus I Prereq: MAT-10
MAT-1B* Calculus II Prereq: MAT-1A
MAT-1C* Calculus III Prereq: MAT-1B
MAT-2* Diff. Equations Prereq: MAT-1B
MAT-63 Arithmetic No

Science, Engineering or Math Majors

MAT-4* Finite Math Prereq: MAT-35
MAT-5* Business Calculus Prereq: MAT-35
MAT-10* Pre-calculus Prereq: MAT-36
MAT-1A* Calculus I Prereq: MAT-10
MAT-1B* Calculus II Prereq: MAT-1A
MAT-1C* Calculus III Prereq: MAT-1B
MAT-2* Diff. Equations Prereq: MAT-1B

Liberal Studies or Social Science Majors

MAT-4** Liberal Studies or Social Science Majors Prereq: MAT-35
MAT-12* Statistics Prereq: MAT-35
MAT-25* Survey of Math Prereq: MAT-35

Shaded areas indicate possible course placements

* Indicates UC/CSU transferable course.
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MAT-1A  Calculus I  4 UNITS
Differentiation with applications and basic integration.
PREREQUISITE: MAT-10 or qualifying placement level.
31140  Last day to add: 01/06/18
WE  01/02/18  02/08/18  08:00AM  11:50AM  MTWTH  STEM 115
WEL  01/02/18  02/08/18  12:00PM  12:50PM  MTWTH  STEM 115
The above section is a web-enhanced class. Internet access is required.
Instructor: B Johnson

MAT-1A  Calculus I  4 UNITS
Differentiation with applications and basic integration.
PREREQUISITE: MAT-10 or qualifying placement level.
31192  Last day to add: 01/06/18
WE  01/02/18  02/08/18  01:00PM  04:50PM  TWTH  STEM 115
WEL  01/02/18  02/08/18  05:00PM  05:50PM  TWTH  STEM 115
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MAT-10  Precalculus  4 UNITS
College-level algebra and trigonometry preparation for calculus.
PREREQUISITE: MAT-36 or qualifying placement level.
31134  Last day to add: 01/06/18
WE  01/02/18  02/08/18  01:00PM  04:50PM  MTWTH  WEQ W4
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MAT-11  College Algebra  4 UNITS
College-level algebra.
PREREQUISITE: MAT-35 or qualifying placement level.
31135  Last day to add: 01/06/18
WE  01/02/18  02/08/18  01:40PM  04:45PM  MTWTH  ATEC 204
The above section is a web-enhanced class. Internet access is required.
Instructor: J Basinger

MAT-12  Statistics  4 UNITS
A study of statistical methods and their application to hypothesis testing and estimation of population parameters.
PREREQUISITE: MAT-35 or qualifying placement level.
31138  Last day to add: 01/06/18
HYB  01/02/18  02/08/18  10:25AM  01:30PM  TH  STEM 302
HYBO  01/02/18  02/08/18  ON LINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: J Mulari

MAT-12  Statistics  4 UNITS
A study of statistical methods and their application to hypothesis testing and estimation of population parameters.
PREREQUISITE: MAT-35 or qualifying placement level.
31194  Last day to add: 01/05/18
HYB  01/02/18  02/08/18  01:00PM  04:50PM  MW  STEM 302
HYBO  01/02/18  02/08/18  ON LINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: J Mulari

MAT-12  Statistics  4 UNITS
A study of statistical methods and their application to hypothesis testing and estimation of population parameters.
PREREQUISITE: MAT-35 or qualifying placement level.
31136  Last day to add: 01/06/18
WE  01/02/18  02/08/18  06:00PM  09:50PM  MTWTH  STEM 115
The above section is a web-enhanced class. Internet access is required.
Instructor: S Johnson

MAT-35  Intermediate Algebra  5 UNITS
Algebra preparation for college-level mathematics.
PREREQUISITE: MAT-52 or qualifying placement level.
31142  Last day to add: 01/06/18
WE  01/02/18  02/07/18  08:00AM  12:05PM  MTWTH  ATEC 211
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: B Nguyen

MAT-35  Intermediate Algebra  5 UNITS
Algebra preparation for college-level mathematics.
PREREQUISITE: MAT-52 or qualifying placement level.
31145  Last day to add: 01/06/18
HYB  01/02/18  02/08/18  10:35AM  12:45PM  MTWTH  WEQ W5
HYBO  01/02/18  02/08/18  ON LINE
The above section is a hybrid class. Computer with Internet access required.
Instructor: S Johnson
MAT-35 Intermediate Algebra 5 UNITS
Algebra preparation for college-level mathematics.
PREREQUISITE: MAT-52 or qualifying placement level.
31144 Last day to add: 01/06/18
WE 01/02/18 02/07/18 12:50PM 04:55PM MTWTH ATEC 210
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: J DeGuzman

MAT-35 Intermediate Algebra 5 UNITS
Algebra preparation for college-level mathematics.
PREREQUISITE: MAT-52 or qualifying placement level.
31143 Last day to add: 01/06/18
HYB 01/02/18 02/08/18 01:00PM 03:50PM TTH STEM 201
HYBO 01/02/18 02/08/18 ON LINE
The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.
Instructor: B Johnson

MAT-36 Trigonometry 4 UNITS
An introduction to the trigonometric functions, their identities and relationships, graphs and applications, accompanied by essential topics of geometry.
PREREQUISITE: MAT-35 and MAT-53 or qualifying placement level.
31146 Last day to add: 01/06/18
HYB 01/02/18 02/08/18 01:45PM 04:50PM TTH STEM 302
HYBO 01/02/18 02/08/18 ON LINE
The above section is a hybrid class. Computer with Internet access required. See www.opencampus.com.
Instructor: R Prior

MAT-36 Trigonometry 4 UNITS
An introduction to the trigonometric functions, their identities and relationships, graphs and applications, accompanied by essential topics of geometry.
PREREQUISITE: MAT-35 and MAT-53 or qualifying placement level.
31147 Last day to add: 01/06/18
WE 01/02/18 02/08/18 06:00PM 09:05PM MTWTH IT 109
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MAT-52 Elementary Algebra 4 UNITS
An introduction to the concepts of algebra. (Non-degree credit course.)
PREREQUISITE: MAT-64 (formerly 50), 65, 90F or qualifying placement level.
31149 Last day to add: 01/06/18
WE 01/02/18 02/08/18 01:40PM 04:45PM MTWTH WEQ W5
The above section is a web-enhanced class. Internet access is required.
Instructor: 5 Park

MAT-52 Elementary Algebra 4 UNITS
An introduction to the concepts of algebra. (Non-degree credit course.)
PREREQUISITE: MAT-64 (formerly 50), 65, 90F or qualifying placement level.
31148 Last day to add: 01/06/18
WE 01/02/18 02/08/18 06:00PM 09:05PM MTWTH ATEC 211
The above section is a web-enhanced class. Internet access is required.
Instructor: Staff

MAT-53 College Geometry 3 UNITS
A course in the study of two- and three-dimensional geometry.
PREREQUISITE: MAT-52 or qualifying placement level.
31193 Last day to add: 01/06/18
WE 01/02/18 02/08/18 08:00AM 10:15AM MTWTH STEM 201
The above section is a web-enhanced class. Internet access is required.
Instructor: J Higley

MAT-65 Arithmetic and Pre-Algebra 5 UNITS
Study of the four basic operations applied to whole numbers, integers, fractions, mixed numbers, and decimals, to include application to real-world problems along with an introduction to the notion of algebra and its uses. (Non-degree credit course.)
PREREQUISITE: None.
31151 Last day to add: 01/06/18
WE 01/02/18 02/07/18 08:00AM 12:05PM MTWTH ATEC 210
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: F Gelenchi

MAT-65 Arithmetic and Pre-Algebra 5 UNITS
Study of the four basic operations applied to whole numbers, integers, fractions, mixed numbers, and decimals, to include application to real-world problems along with an introduction to the notion of algebra and its uses. (Non-degree credit course.)
PREREQUISITE: None.
31150 Last day to add: 01/06/18
WE 01/02/18 02/07/18 05:30PM 09:35PM MTWTH ATEC 204
The above section is a short term web-enhanced class. Internet access is required. Please note the start and end dates.
Instructor: E Hwang
## MUSIC

**MUS-19   Music Appreciation**  
3 UNITS  
A survey of music in the Western world focused on listening, including terminology for describing musical elements, forms, styles, and the roles of music and musicians in society.  
**PREREQUISITE:** None.  
**31155**  
**OL**  
01/02/18  02/08/18  
ON LINE  
Last day to add: 01/07/18  
The above section is an online class. Computer with Internet access required.  
**Instructor:** I Zubizarreta

**MUS-19   Music Appreciation**  
3 UNITS  
A survey of music in the Western world focused on listening, including terminology for describing musical elements, forms, styles, and the roles of music and musicians in society.  
**PREREQUISITE:** None.  
**31156**  
**WE**  
01/02/18  02/08/18  
10:25AM  12:40PM  MTWTH  ATEC 114  
Last day to add: 01/06/18  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** K Kamerin

**MUS-87   Applied Music Training**  
1 UNIT  
Vocal or instrumental individualized music instruction, practice, and performance. Not designed for beginning students.  
**PREREQUISITE:** None.  
**LIMITATION ON ENROLLMENT:** Audition on or before the first class meeting.  
**31179**  
**WEL**  
01/02/18  02/08/18  
THTR 204  
Last day to add: 01/14/18  
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 Tuesday, January 2nd 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 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  
Group piano lessons for beginners. Emphasis on simple melodies and basic chords using standard musical notation and lead sheets.  
**PREREQUISITE:** None.  
**31180**  
**LAB**  
01/02/18  02/08/18  
08:45AM  10:00AM  TWTH  HUM 101  
Last day to add: 01/06/18  
**Instructor:** K Kamerin

## PHILOSOPHY

**PHI-10   Intro to Philosophy**  
3 UNITS  
Introduction to the major questions of Western philosophy and their answers.  
**PREREQUISITE:** None.  
**ADVISORY:** ENG-50 or 80.  
**31159**  
**OL**  
01/02/18  02/08/18  
ON LINE  
Last day to add: 01/07/18  
The above section is an online class. Computer with Internet access required.  
**Instructor:** I Zubizarreta

**PHI-11   Critical Thinking**  
3 UNITS  
Introduction to critical thinking as it relates to everyday experience and general knowledge.  
**PREREQUISITE:** None.  
**ADVISORY:** REA-82.  
**31161**  
**WE**  
01/02/18  02/08/18  
08:00AM  10:15AM  MTWTH  LIBR 108  
Last day to add: 01/06/18  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** I Zubizarreta

## PHYSICAL SCIENCE

**PHS-1   Intro Physical Sci**  
3 UNITS  
Descriptive survey of the physical sciences: astronomy, geology, physics, chemistry as they relate to daily living.  
**PREREQUISITE:** None.  
**31162**  
**LEC**  
01/02/18  02/08/18  
10:25AM  12:40PM  MTWTH  HUM 201  
Last day to add: 01/06/18  
**Instructor:** P Tran

## PHYSICS

**PHY-10   Introduction to General Physics**  
3 UNITS  
Introduces study of mechanics, matter, heat, sound, light, electricity, magnetism, and nuclear physics.  
**PREREQUISITE:** MAT-52.  
**31191**  
**LEC**  
01/02/18  02/08/18  
08:00AM  10:15AM  MTWTH  HUM 201  
Last day to add: 01/06/18  
**Instructor:** P Tran
## POLITICAL SCIENCE

**POL-1 American Politics** 3 UNITS  
The principles, institutions, policies, and critical issues in American politics.  
**PREREQUISITE:** None.  
**ADVISORY:** REA-83 and qualification for ENG-1A.  
**31163 Last day to add:** 01/07/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**See www.opencampus.com.**  
**Instructor:** C Samuels

**PSYCHOLOGY**

**PSY-1 General Psychology** 3 UNITS  
Survey of scientific study of behavior and mental processes, including learning, emotion, motivation, emotional problems and therapy.  
**PREREQUISITE:** None.  
**31162 Last day to add:** 01/06/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**See www.opencampus.com.**  
**Instructor:** L Adams

**PSY-9 Developmental Psych** 3 UNITS  
A survey of biological, cognitive and psychosocial development throughout the human life cycle from conception to death.  
**PREREQUISITE:** None.  
**31169 Last day to add:** 01/07/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**See www.opencampus.com.**  
**Instructor:** K Zamiska

## REAL ESTATE

**RLE-80 Real Estate Principles** 3 UNITS  
Comprehensive analysis of basic laws, principles, terminology and current practices of California real estate.  
**PREREQUISITE:** None.  
**31170 Last day to add:** 01/07/18  
OL 01/02/18 02/08/18  
The above section is an online class. Computer with Internet access required.  
**See www.opencampus.com.**  
**Instructor:** T Wagner

## SOCIOLOGY

**SOC-1 Intro to Sociology** 3 UNITS  
An introduction to the basic concepts of societal organization.  
**PREREQUISITE:** None.  
**ADVISORY:** ENG-1A  
**31172 Last day to add:** 01/06/18  
LEC 01/02/18 02/08/18  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** K Andacheh

**SOC-1 Intro to Sociology** 3 UNITS  
An introduction to the basic concepts of societal organization.  
**PREREQUISITE:** None.  
**ADVISORY:** ENG-1A  
**31173 Last day to add:** 01/06/18  
LEC 01/02/18 02/08/18  
The above section is a web-enhanced class. Internet access is required.  
**Instructor:** K Andacheh
SOC-1    Intro to Sociology        3 UNITS
An introduction to the basic concepts of societal organization.
PREREQUISITE: None.
ADVISORY: ENG-50.
31184    Last day to add: 01/06/18
LEC 01/02/18 02/08/18 06:00PM 08:50PM TWTH IT 122
Instructor: J Hill

THEATER ARTS

THE-3    Intro to the Theater        3 UNITS
A survey of theatrical styles and forms intended for the general college student.
PREREQUISITE: None.
31175    Last day to add: 01/07/18
OL 01/02/18 02/08/18 ON LINE
The above section is an online class. Computer with Internet access required.
Instructor: W Stevens

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.cccd.edu/Norco/Assessment/indez.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
Develops basic skills in understanding, reading, communicating and writing in Spanish.
PREREQUISITE: None.
ADVISORY: Completion of placement test to assess level of proficiency in Spanish.
31174    Last day to add: 01/06/18
LEC 01/02/18 02/08/18 08:00AM 12:50PM TWTH LIBR 121
LAB 01/02/18 02/08/18 01:00PM 01:50PM TWTH LIBR 121
Instructor: A Covarrubias

SPA-2    Spanish 2        5 UNITS
Further development of basic skills in understanding, reading, communicating, and writing in Spanish.
PREREQUISITE: SPA-1, 1H or 1B or qualifying placement level on the Spanish assessment test or equivalent.
31178    Last day to add: 01/06/18
HYB 01/02/18 02/08/18 09:00AM 11:15AM TWTH LIBR 109
HYBO 01/02/18 02/08/18 ON LINE
HYBL 01/02/18 02/08/18 08:00AM 08:50AM TWTH LIBR 109
The above section is a hybrid class. Computer with Internet access required.
See www.opencampus.com
Instructor: D Hitchcock
Open to the Public
Open 6:30 a.m. – 5:30 p.m. • Monday – Friday
Ages 6 weeks - 6 years • 50 weeks of the year

Did you know?
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There is a “sample” class loaded with tutorials and useful information.
The sample class is based upon classes taught using the Blackboard environment.
video tutorials, helpful links and other resources are available for viewing and reference.

To access, follow these easy steps:
Step 1: visit www.opencampus.com.
Step 2: click the “Login to Blackboard” link.
Step 3: under the “Need Blackboard Help?” heading,
click the “Visit the Sample Class” link.
Step 4: click the “Blackboard Sample Class” link.

If you are experiencing difficulties with Blackboard, call toll free at 1-866-259-7271.
Support via email and chat is available through the “Online Learning Support Center” link located on the main Blackboard login screen.

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