Accounting

ACCT 100  Accounting  4 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

The objective of this course is to provide an accounting educational background for business students. Course content includes development of the accounts through journalizing, cash journal entries, sales and purchases, posting, trial balance, work sheet and resultant financial statements. 72 lecture hours.

21661 Borja, P.  HRS-ARRG 06/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

ACCT 101  Financial Accounting  4 Units

Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.

The objectives of this course are to learn the content and meaning of the basic financial statements and their impact on the decision-making process in the business environment. This course will provide a broad overview of the importance of accounting in the business process as well as introduce the student to the double entry system of accounting, how to record, process and report on the business transactions and events and to consider the operating cycles in business. Topical areas covered in this class will include cash accounts, inventory, property, plant and equipment, intangible assets, current liabilities and stockholder equity. The importance of internal controls will be reviewed and the components of the income statement will also be discussed.

72 lecture hours, CSU UC

20017 Borja, P.  MW 10:00 AM-12:05 PM  LB 208 06/21-12/12

20026 Borja, P.  TR 12:15 PM-02:20 PM  LB 208 06/21-12/12

21602 Smolin, R.  M 06:00 PM-10:10 PM  LB 208 06/21-10/17

21613 Smolin, R.  HRS-ARRG 08/21-10/17

DISTANCE EDUCATION HYBRID CLASS After registering go to www.citruscollege.edu/de

Fast Track Class - first eight weeks.

Requires enrollment in Acct 101 CRN 21662, first eight weeks.

ACCT 101H Financial Accounting/Honors  4 Units

Requisite: Student must be eligible for the Citrus College Honors Program or obtain a recommendation from an Honors instructor.

Strongly recommended: ACCT 100 or high school bookkeeping; or related job experience.

Examines the fundamental concepts of financial accounting such as: the double entry system of accounting; financial analysis and internal controls. Analyze financial data to evaluate performance and formulate appropriate course of action in the business environment. Students are expected to work and participate at an honors level which includes advanced critical thinking skills, more in depth analysis of financial statements and presentation skills as demonstrated by group presentations, class participation and case study analysis. 72 lecture hours. CSU UC

21947 Smolin, R.  TR 07:45 AM-09:50 AM  AM 208 06/21-12/12

ACCT 102  Managerial Accounting  4 Units

Prerequisite: ACCT 101.

This is the study of how managers use accounting information in decision-making, planning, directing operations and controlling. Focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments. 72 lecture hours. CSU UC

20033 Borja, P.  MW 12:15 PM-02:20 PM  LB 208 06/21-12/12

20036 Smolin, R.  TR 10:00 AM-12:05 PM  LB 208 06/21-12/12

21714 Borja, P.  M 06:00 PM-10:10 PM  LB 208 10/19-12/12

21991 Borja, P.  HRS-ARRG 10/19-12/12

DISTANCE EDUCATION HYBRID CLASS After registering go to www.citruscollege.edu/de

Fast Track Class - second eight weeks.

Requires enrollment in Acct 101 CRN 21662, first eight weeks.

ACCT 110  Income Tax Accounting  4 Units

A course designed to study the federal income tax process, federal income tax laws that apply to individuals, and the application of tax principles to specific problems. Topics include gross income and exclusions, business deductions and itemized deductions, losses, certain tax credits and property transactions. Study is also made of California income tax laws in those areas which differ from federal tax law. 72 lecture hours. CSU

22403 Borja, P.  HRS-ARRG 08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

ACCT 115  QuickBooks  2 Units

Instruction in QuickBooks, a computerized accounting system for business.

Applies basic accounting concepts. 36 lecture hours.

22465 Richardson, P.  M 06:00 PM-09:20 PM  IS 108 10/01-12/12

Administration of Justice

AJ 101  Introduction to the Administration of Justice  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped these principles and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. 54 lecture hours. CSU UC

21525 Woolom, J.  MTWR 01:05 PM-02:55 PM  TE 153 08/21-10/09

Fast Track Class - First Seven Weeks

20134 Woolom, J.  MW 08:20 AM-09:45 AM  TE 153 08/21-12/12

20115 Woolom, J.  TR 09:55 AM-11:20 AM  TE 153 08/21-12/12

22188 Provencher, H.  F 08:10 AM-11:20 AM  TE 153 08/21-12/12

20872 Wong, K.  M 07:00 PM-10:10 PM  TE 153 08/21-12/12

AJ 102  Concepts of Criminal Law  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

The philosophy and historical development of law, including the provisions of the U.S. Constitution. The concepts and definitions necessary to relate court decisions to statutes including those specific to correctional institutions. 54 lecture hours. CSU UC

21526 Woolom, J.  MTWR 01:05 PM-02:55 PM  TE 153 10/19-12/03

Fast Track Class - Second 8 weeks

20167 Woolom, J.  TR 08:20 AM-09:45 AM  TE 153 08/21-12/12

AJ 103  Legal Aspects of Evidence  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Origin, development, philosophy and constitutional basis of evidence, constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. 54 lecture hours. CSU

21528 Provencher, H.  MW 08:20 AM-09:45 AM  LB 310 08/21-12/12

21901 Gregoire, M.  W 07:00 PM-10:10 PM  TE 153 08/21-12/12
Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833   Admissions and Records office (626)

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**AJ 105**  Criminal Investigation  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Fundamentals of investigation and the techniques of crime scene recording and search. The collection and preservation of physical evidence, modus operandi, processes, sources of information, interview and interrogation, follow-up, and case preparation. 54 lecture hours. CSU

**AJ 106**  Patrol Procedures  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course is a study of the responsibility, techniques, and methods of police patrol. This includes the areas of patrol distribution, selective enforcement, pull-over and approach methods, emergency pursuit driving, search of suspects and buildings, field interrogations, and procedures in handling "police-called-for" services. 54 lecture hours. CSU

**AJ 107**  Juvenile Procedures  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focus on Juvenile Law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System. 54 lecture hours. CSU

**AJ 108**  Community and the Justice System  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Culture, Religion, and Law. 54 lecture hours. CSU UC

**AJ 109**  Criminal Procedures  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state constitutional law precedents. 54 lecture hours. CSU

**AJ 112**  Community and the Justice System  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Culture, Religion, and Law. 54 lecture hours. CSU UC

**AJ 123**  Writing for Criminal Justice Professionals  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Techniques for communicating facts, information, and ideas effectively in a simple, clear, and logical manner in various types of criminal justice reports: letters, memoranda, directives, and administrative reports. Emphasis is on criminal justice terminology, use of English, and organization of information. Students will practice note taking and report writing as well as presentation of testimony in court. 54 lecture hours. CSU

**AJ 130**  Introduction to Probation and Parole  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

A survey of the role of probation and parole in today's criminal justice system. Career opportunities available in probation and parole work will be included. 54 lecture hours. CSU

**AJ 131**  Introduction to Corrections  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course provides an introduction to the role of forensics in criminal investigations. It examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents and controlled substances. 54 lecture hours. CSU

**ANTH 210**  Introduction to Cultural Anthropology  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Students will critically examine various societies around the world using basic cultural concepts such as language, food production, economics, kinship, art, religion, and magic. The class is designed to foster a pluralistic view of the world, teach introductory anthropological concepts, and strengthen critical thinking skills. College level reading is strongly advised for success in the course. 54 lecture hours. CSU UC

**ANTH 212**  Introduction to Physical Anthropology  3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

An introductory study of the biological origin of humans. The course will emphasize the biology of humans, human evolution, taxonomy, pre human fossil identification, and adaption to the environment. CONCURRENT ENROLLMENT WITH ANTH 212L IS REQUIRED TO RECEIVE LAB SCIENCE CREDIT. College level reading is highly recommended for success in the course. 54 lecture hours. CSU UC

**ANTH 214**  Wills, L.  MW 09:55 AM-11:20 AM  LB 303 08/21-12/12

**DISTANCE EDUCATION CLASS**  After registering go to www.citruscollege.edu/de

Lecture section only. Lab section CRN 21346 for ANTH 212L is also required to receive lab science credit.

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833   Admissions and Records office (626)
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**ANTH 212L Introduction to Physical Anthropology Lab**

Co-requisite: ANTH 212.

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course is the lab component for Introduction to Physical Anthropology 212. In the lab students will have an expanded opportunity to work with anatomy, skeletal identification, taxonomy, and evolutionary trends. Concurrent enrollment with ANTH 212 is required. College level reading is highly recommended for success in the course.

54 lab hours. CSU UC

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**ANTH 220 Introduction to Archaeology**

An introductory study of the science of archaeology. The course will emphasize the evolution of human material culture, the laws and theories governing the science of archaeology, archaeological processes, and the realities of archaeology versus popular culture definitions. College level reading is strongly recommended for success in the course.

54 lecture hours. CSU UC

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**ANTH 224 Anthropology of Religion, Magic, and Witchcraft**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This introductory course examines the forms and functions of religion cross-culturally and the manners in which anthropology investigates religious beliefs and practices. This course emphasizes applying cultural relativism to the study of topics such as mythology, magic, witchcraft, altered states of consciousness, supernatural beings, souls and ghosts, and the question of cults. Connections between religious life and general patterns of human behavior are explored, including the role of ritual in social life, the use of specialists, and processes of cultural change. 54 lecture hours. CSU UC

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**ART 100A Survey of Western Art from Prehistory through the Middle Ages**

This course provides an overview of western art and architecture from prehistory through the medieval period. 54 lecture hours. CSU UC

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**ART 100B Survey of Western Art from Renaissance to Contemporary**

This course provides an overview of art and architecture from the Renaissance to the contemporary period. 54 lecture hours. CSU UC

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**ARCH 201 Architectural Design I**

Prerequisite: ARCH 110.

Explores the tools required to begin the formulation of design concepts and structure. This exploration is supported by discussion, observations, and hands-on experimentation, including research of precedents. The goal is to develop a process of design that draws from many sources in order to solidify a concept. Craftsmanship, clarity, and eloquence are highly valued in the construction of design submittals and in written and verbal presentations. A portfolio of the assigned design exercises completes the course requirements.

36 lecture hours, 72 lab hours.

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**ARCH 250 History of Architecture: Prehistory to Mannerism**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Development of architecture from Prehistory, ancient Egypt, ancient Greece, Rome to the Mannerism period. Influence of geography, religion and socio-economic movements on architecture are explored. The role of a built environment in social, cultural, and political life: how buildings are constructed, what they mean, effects they have on the world, and ways they imagine new futures and shape private and public life. This course spotlights new possibilities for shaping the world in which we live, with an emphasis on how architecture extends to cities, roads, books and films. Consideration is given to historical context and cultural genealogy of particular buildings and environments, material and economic conditions of buildings and more. 54 lecture hours. CSU UC

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**ART 104 Art History and Appreciation - 19th Century Art**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course covers the history of western art from the French Revolution to c. 1900 A.D. 54 lecture hours. CSU UC

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**ART 105 Art History and Appreciation - Early 20th Century Art**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

This course covers the history of western art from the late 19th century to mid 20th century. The course is concerned with both the fundamentals of art appreciation as well as the history of our times. 54 lecture hours. CSU UC

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**ART 110 Introduction to the Visual Arts**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

A course designed to further the general education of all students. Students will be introduced to the visual arts through aesthetics, critique, history, and by creating art using various mediums. 36 lecture hours, 72 lab hours. CSU UC

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</table>

**ART 111 Beginning Drawing**

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

A basic course in drawing and composition to develop a student's ability to perceive and define shape, mass, contour, volume, space and light, using a variety of media and subject matter. This course is required of all art majors. 36 lecture hours, 72 lab hours. CSU UC

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**ART 112 Intermediate Drawing**

Prerequisite: ART 111.

Emphasis is on conceptual art through advanced, imaginative and subjective approaches to drawing. Includes experimental use of media, theoretical and conceptual approaches to content, and examination of aesthetics within contemporary drawing concerns. Required of all art majors. 36 lecture hours, 72 lab hours. CSU UC

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**ART 115 Figure Drawing I**

An introduction to the structural understanding of the human form, based on study of the figure in history, theory, and aesthetics and its practical application to drawing from live model. 36 lecture hours, 72 lab hours. CSU UC

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**ART 116 Figure Drawing II**

Prerequisite: ART 115.

A continuation of the structural study of the figure with emphasis on the exploration of expressive concepts, media, and techniques. Included will be reading for historical, theoretical, and aesthetic application to class material. 36 lecture hours, 72 lab hours. CSU UC

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**ART 120 Two-Dimensional Design**

An investigation of the elements of art: especially color and composition. Emphasis is placed on individual solutions to visual problems by observing the principles of design. Required of all art majors. 36 lecture hours, 72 lab hours. CSU UC

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**ART 130 Beginning Painting**

An objective approach to form, space, and color concepts using oil or acrylic paint. Includes critical examination of paintings for technical and aesthetic concerns, content, and historical/cultural influences. 36 lecture hours, 72 lab hours. CSU UC

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Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 4
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**ART 131 Intermediate Painting** 3 Units
Prerequisite: ART 130.
Development of expressive painting concepts and techniques in oil and acrylic, with emphasis on historical, theoretical, and cultural meanings. Standard painting media. 36 lecture hours, 72 lab hours. CSU UC.

**ART 140 Beginning Ceramics** 3 Units
This course explores basic techniques of pottery making. It includes handbuilding and throwing on the potter's wheel. Emphasis is on understanding the qualities of clay, appreciation of basic pottery forms, simple glazing technique and the development of personal expression. Material fee. 36 lecture hours, 72 lab hours. CSU UC.

**ART 141 Intermediate Ceramics** 3 Units
Prerequisite: ART 140.
This course further develops basic pottery skills by introducing new forms on the potter's wheel and additional decorating and glazing techniques. Material fee. 36 lecture hours, 72 lab hours. CSU UC.

**ART 149 Studio Problems in Ceramics** 1 Units
Prerequisite: ART 141.
Independent study involving intermediate or advanced projects in studio ceramics. Materials used include clay, engobe, stain and glaze. Firing techniques, studio practices, display, and exhibition design is included. Material fee. 18 lecture hours, 18 lab hours. CSU UC.

**ART 150 Computer Art Basics** 3 Units
This introductory computer art course is designed for people interested in learning the basics of computer art. Adobe Illustrator and Photoshop are utilized to create computer graphics and Microsoft Word is used for word processing. Operating system, printers, scanners, and digital cameras are also explored in this course. Material fee. 36 lecture hours, 72 lab hours. CSU UC.

**ART 153 Digital Media Productions I** 3 Units
Strongly recommended: ART 150 or Portfolio review.
An overview of multimedia production and associated technology. The course will use Illustrator, Photoshop and other software in the development of graphic presentations for use in business and communications. Students will be provided an opportunity to produce computer graphics merging images and text for large format printing. Material fee. 36 lecture hours, 72 lab hours. CSU.

**ART 159 Introduction to Typography** 3 Units
Strongly recommended: ART 150.
Introduction to fundamental concepts, practices, and theories of typography. Topics include terminology, history, vocabulary, classification, design and contemporary use of type. Utilizing board skills and software programs students will creatively manipulate type fonts in designs and layout applications, demonstrating a sensitivity to the characteristics and communicative values of typography. 36 lecture hours, 54 lab hours. CSU.

**ART 162 Computer Graphics I** 3 Units
Strongly recommended: ART 150 and/or ART 158.
An introduction and skill development course using the computer as a tool for graphic design and page layout projects where basic design, personal creativity, typography, illustration, and production techniques are implemented. An emphasis is placed on understanding the role of graphic design and the designer in contemporary society and how computer technology plays a major part in this rapidly developing career field. Software includes: current software applications. 36 lecture hours, 72 lab hours. CSU.

**ART 167 Web Design I** 3 Units
Strongly recommended: ART 150 or Portfolio review.
An overview of World Wide Web with emphasis on design and publishing. This course utilizes various developmental tools in the design of pages to be used on the Internet for commercial or personal use. 36 lecture hours, 72 lab hours. CSU.
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**ART 168 Animation I**

3 Units

**ART 240 Advanced Ceramics I**

3 Units

**ART 241 Advanced Ceramics II**

3 Units

**ART 253 Digital Media Production II**

3 Units

**ART 267 Web Design II**

3 Units

**ART 268 Animation II**

3 Units

**Astronomy**
### ASTR 115 Planetary Astronomy

3 Units

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**Note:** Course Dates indicate Beginning and Ending Dates

Students required to take exams on campus.

**Description:** Strongly recommended: ENGL 099 if required by English placement exam or if required by English level. Also, MATH 030.

The fundamental areas of stellar astronomy including the structure, classification and evolution of stars, galaxies and the universe, interstellar matter, and the theories of Newton and Einstein. Laboratory exercises include: energy and forces, light, optics, telescopes, stars and their classification, and galaxies. 54 lecture hours, 54 lab hours. CSU UC

### ASTR 116 Stellar Astronomy

4 Units

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**Description:** Strongly recommended: ENGL 099 if required by English placement exam or if required by English level. Also, MATH 030.

The origin and evolution of life on Earth, the processes and conditions relevant to life elsewhere in the universe, and the ongoing search for extraterrestrial life. 54 lecture hours, CSU UC

### ASTR 117 Life In The Universe

3 Units

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**Description:** Strongly recommended: ENGL 099 if required by English placement exam or if required by English level. Also, MATH 030 or higher.

The astronomy of the solar system including the history of astronomy, Newton's and Kepler's laws, light, telescopes, the Sun, terrestrial and giant planets, satellites, comets, meteors, and the origin of the solar system. 54 lecture hours.

### Automotive - Auto, Lt Truck

#### AUTO 100 Automotive Technology and Maintenance for the Consumer

3 Units

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**Description:** Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

Intended for non-majors. Automobiles and light trucks will be explained from the point of view of the consumer. Operation of essential automotive technologies is central to the course goal of skill development in the inspection of various automobile systems for needed repairs and/or maintenance performed by the end-user. Appropriate lab activities in automobile inspection, service and repair are included. 54 lecture hours, 18 lab hours, CSU

#### AUTO 151 Engine Service, Diagnosis and Repair

6 Units

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**Prerequisite:** AUTO 101.

Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential engine theory, inspection, diagnosis, service and repair. Engine disassembly, inspection, measurements and assembly are covered, with emphasis on in-vehicle repairs. The course prepares students for ASE Engine Repair (A1) certification exam. 54 lecture hours, 167 lab hours. CSU

#### AUTO 154 Chassis Service, Diagnosis, and Repair

8 Units

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**Prerequisites:** AUTO 101 and AUTO 151. Strongly recommended: ENGL 099 if required by English placement exam or if required by English level. Also, MATH 030 or higher.

Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential chassis system theory, along with inspection, diagnosis, service and repair of the following undercar systems: brake, steering, suspension, alignment, wheel/tire, ride control and ABS. Course prepares students for ASE Suspension and Steering (A4) and ASE Brakes (A5) certification. 108 lecture hours, 135 lab hours.

#### AUTO 156 Automotive Electrical & Electronic Systems I

5 Units

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**Prerequisite:** AUTO 101.

Intended for those seeking a career in the automotive service and repair industry, this National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. This class covers essential electrical and electronic systems theory, along with inspection, diagnosis, service & repair of specific electrical systems including the battery, starting systems, charging systems, lighting systems, gauges, and instrument-panel warning lights. Prepares students for ASE Electrical & Electronic Systems (A6) certification. 68 lecture hours, 72 lab hours. CSU

#### AUTO 162 Drivetrain Service, Diagnosis and Repair

8 Units

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**Prerequisite:** AUTO 166.

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level. Also, MATH 030 or higher.

Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. This course focuses on the service, diagnosis and repair of the manual and automatic automotive drivetrain systems. Appropriate lab activities in automobile drivetrain inspection, service and repair are included. The course prepares students for the ASE Automatic Transmission and Transaxle (A2) and Manual Drivetrain and Axles (A3) certification exams. 108 lecture hours, 135 lab hours.

#### AUTO 166 Engine Control Systems Service, Diagnosis and Repair

8 Units

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**Prerequisites:** AUTO 151 and AUTO 166.

Strongly recommended: ENGL 099 if required by English placement or if required by English level. Also, MATH 030 or higher.

Intended for those seeking a career in the automotive service and repair industry. This National Automotive Technicians' Education Foundation certified course is one component of the Toyota Technical Education Network and Technicians' Education Cooperative programs. The course covers essential engine management systems theory, along with inspection, diagnosis, service and repair of the following systems: ignition, air and fuel delivery, electronic engine controls, and auxiliary emission controls. This course prepares students for ASE Engine Performance (A8) certification. 108 lecture hours, 135 lab hours.

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626)
### Schedule of Credit Classes - Fall 2015

**Notes:**
- Course Dates indicate Beginning and Ending Dates
- **M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=Saturady**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>AUTO 230A Automotive Service and Repair Work</td>
<td>1 Units</td>
<td>Experience A</td>
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<tr>
<td>Strongly recommended: Completion of 16 units in automotive technology coursework.</td>
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<tr>
<td>Limitation on Enrollment: Department consent required prior to enrollment.</td>
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<tr>
<td>Educational technology work experience is designed to extend occupational learning through employment and coordinate the on-the-job training with program instruction. Individual student goals and learning objectives will be designed by the student cooperatively with the employer and faculty advisor.</td>
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<tr>
<td>Lab hours are arranged and completed at the place of employment. The AUTO 230-A series of courses may be taken in any combination for a maximum of four units. Pass/No Pass grading only. 9 lecture hours, 160 lab hours arranged.</td>
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<tr>
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<td>Department approval required prior to enrollment.</td>
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<tr>
<td>The lectures will meet on the following Wednesdays:</td>
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<tr>
<td>September 2, October 7, November 4, December 9</td>
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<td>6:30pm - 9:00pm</td>
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### Automotive Tech-Auto, Lt Truck

**AUTO 140A Vehicle Maintenance** | 4 Units |
| Prerequisite: ENGL 098 if required by English placement exam or if required by English level, MATH 029 if required by Math placement exam or if required by Math level and/or with department consent. | | |
| Intended for the incumbent worker, re-entry person or person seeking a career change into the automotive service industry. This course is intended to be the beginning course in the Maintenance and Light Repair (MLR) curriculum. This course is focused on developing workplace skills that will allow a student to competently perform a detailed multi-point inspection and conduct fluid maintenance on select vehicle subsystems. Appropriate lab activities are included. 54 lecture hours, 54 lab hours. | | |
| 22324 Clark, J. | TR | 06:30 PM-07:55 PM | TE 104 | 08/21-12/12 |
| 21316 Manookian, D. | TR | 08:20 AM-09:45 AM | MA 227 | 08/21-12/12 |
| 22274 Ayala, E. | TR | 05:25 PM-06:50 PM | LH 101 | 08/21-12/12 |
| 20685 Dery, K. | M | 07:00 PM-10:10 PM | LH 103 | 08/21-12/12 |
| 21683 Dery, K. | T | 07:00 PM-10:10 PM | LH 102 | 08/21-12/12 |

### Biology

**BIOL 102 Human Genetics** | 3 Units |
| Prerequisite: MATH 030. | | |
| Strongly recommended: ENGL 099 if required by English placement or if required by English level. | | |
| General principles of genetics and reproduction in wellness and disease as applied in humans. Topics include Mendelian inheritance, variations on Mendelian inheritance, multifactorial traits, DNA structure, function, and replication, cell division, population genetics, evolution, immunity, cancer, and genetic technologies. 54 lecture hours. CSU UC | | |
| 21488 Lee, M. | MW | 09:55 AM-11:20 AM | PS 113 | 08/21-12/12 |
| 21489 Hollenshead, M. | TR | 08:20 AM-09:45 AM | MA 227 | 08/21-12/12 |
| 21316 Manookian, D. | TR | 08:20 AM-09:45 AM | PS 107 | 08/21-12/12 |
| 22075 Goedhart, C. | HRS-ARRG | | | 08/21-12/12 |
| DISTANCE EDUCATION CLASS After registering to www.citruscollege.edu/de Students required to take exams on campus. | | |

**BIOL 104 Biology: Contemporary Topics** | 3 Units |
| Strongly recommended: ENGL 099 if required by English placement or if required by English level. | | |
| A general biology lecture course for non-majors which will cover basic life processes and address contemporary issues in biology. Biological principles covered will include chemical foundations of biology, cell structure and function, cell reproduction, and genetics. Contemporary issues may include such areas as public health, biotechnology, and environmental science. 54 lecture hours. CSU UC | | |
| 21488 Lee, M. | MW | 09:55 AM-11:20 AM | PS 113 | 08/21-12/12 |
| 21489 Hollenshead, M. | TR | 08:20 AM-09:45 AM | MA 227 | 08/21-12/12 |
| 21316 Manookian, D. | TR | 08:20 AM-09:45 AM | PS 107 | 08/21-12/12 |
| 22075 Goedhart, C. | HRS-ARRG | | | 08/21-12/12 |
| DISTANCE EDUCATION CLASS After registering to www.citruscollege.edu/de Students required to take exams on campus. | | |
**BIOL 105  General Biology**  
4 Units  

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**BIOL 105H General Biology - Honors**  
4 Units  

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**BIOL 116 HIV and AIDS: Insights and Implications**  
3 Units  

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**BIOL 124 Principles of Biology I**  
5 Units  

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</table>
### BIOL 125  Principles of Biology II  
5 Units  

Prerequisite(s): MATH 142 or MATH 150.  
A principles of biology course designed for biology majors and pre-med students.  
Detailed study of the structure and function of living material, with emphasis on the diversity of living material, animal and plant form, function, reproduction and development, evolution, and ecological relationships.  
72 lecture hours, 54 lab hours.  
CSU UC  

<table>
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### BIOL 145  Environmental Science  
3 Units  

Strongly recommended: BIOL 104 or BIOL 105.  Also, ENGL 099 if required by English placement or if required by English level.  
A lecture course exploring contemporary global environmental concerns.  Basic concepts covered will include the Earth's life support systems, population dynamics, environmental pollution, food production, and natural resource utilization.  
Emphasis will be placed on recognizing global environmental problems and exploring various solutions for them.  
54 lecture hours.  
CSU UC  

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<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
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### BIOL 200  Human Anatomy  
4 Units  

Prerequisite: BIOL 105 or BIOL 124.  
Biology 200 is a lecture/laboratory course in human anatomy focusing on the structures and organs of the human body.  
Students will be required to learn and understand the structures from the molecular to gross levels, using the microscope, standard anatomical (plastic) models, and preserved specimens (sheep heart, sheep brain, and cat).  
Required of pre-nursing students.  
54 lecture hours, 54 lab hours.  
CSU UC  

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### BIOL 201  Human Physiology  
4 Units  

Prerequisites: BIOL 200 and CHEM 103 or CHEM 104 or CHEM 110 or CHEM 111 or CHEM 112.  
An advanced course in human physiology emphasizing muscle, nerve, circulation, respiration, excretion, digestion, and reproduction systems.  
Required of pre-nursing students.  
54 lecture hours, 54 lab hours.  
CSU UC  

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
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<td>08/21-12/12</td>
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</table>

### BIOL 220  Microbiology  
5 Units  

Prerequisites: BIOL 105 or BIOL 124 and CHEM 103 or CHEM 104 or CHEM 110 or CHEM 111 or CHEM 112.  
An introduction to the biology of microorganisms including bacteria, viruses, fungi, and protozoa.  
Metabolism, genetics, culture methods, identification, and control of common microbes are covered.  
Emphasis is placed on the virulence mechanisms and control of human pathogens and on the principles of immunology and host defense.  
Laboratory work includes techniques common to the control, culture, and identification of microbes.  
Required of pre-nursing students and medical technologists.  
54 lecture hours, 108 lab hours.  
CSU UC  

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<th>CRN</th>
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<tbody>
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</table>

### Biotechnology  

#### BIOT 110  Biotechnology I: Basic Lab Skills and Documentation  
4 Units  

Strongly recommended: MATH 030 or MATH 032.  Also, ENGL 099 if required by English placement exam or if required by English level.  
This course provides an introduction to biotechnology beginning with an overview of basic biological and chemical concepts.  
Students will examine the application of biotechnology to healthcare, forensics, renewable fuels, and environmental remediation.  
The course includes a significant laboratory component emphasizing laboratory safety, operation of standard equipment, industry documentation practices, preparation of chemical solutions, aseptic technique, and DNA isolation and manipulation.  
Students will gain an appreciation for the diversity of biotechnology companies in our region and local workforce trends.  
36 lecture hours, 108 lab hours.  
CSU UC  

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<th>CRN</th>
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<th>Days</th>
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</table>

### Business  

#### BUS 130  Introduction to Business  
3 Units  

This is a foundation course in business administration.  It is recommended for all students planning further study in this field.  
Lecture, discussion, and problems involve such topics as business finance, personnel, production, distribution, government regulations, and managerial controls.  
54 lecture hours.  
CSU UC  

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<tbody>
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<td>LB 207</td>
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</table>

#### BUS 132  Ethics in Business  
3 Units  

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.  
This course emphasizes development of managerial decision-making skills utilizing ethical business standards for improvement of business organizations, communities, government, and international trade.  
54 lecture hours.  
CSU UC  

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</tbody>
</table>

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626)
### BUS 146 Personal Finance 3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

This course is an integrative approach to personal finance focusing on practical financial decision making as well as the social, psychological, and physiological contexts in which those decisions are made. Students will examine their relationships with money, set personal goals, and develop a plan to meet those goals. Topics include consumerism, debt, disability, death and taxes. 54 lecture hours.

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### BUS 150 Business English 3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

An introductory course in business writing, which includes a common-sense approach to the use of English grammar, punctuation and style in the business context, and strategies for effective writing of business-related communications. Recommended for business majors. 54 lecture hours.

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### BUS 160 Business Law and the Legal Environment I 3 Units

A study of law, with an emphasis on the law's relationship to business. Topics covered include the legal environment of business, court procedures, jurisdiction, torts and crimes in the business environment, intellectual property, principles of contract law, commercial transactions, and ethical business practices. 54 lecture hours.

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</table>

### BUS 161 Business Law and the Legal Environment II 3 Units

A study of law, with an emphasis on the law's relationship to business. Topics covered include agency, employment law, consumer law, environmental law, real estate, bankruptcy, wills, trusts, and estate laws. 54 lecture hours.

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<tr>
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### BUS 170 Small Business Management 3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

The study of business organization emphasizing the small independently owned business. Instructional topics include discussion of the benefits of small business, creation of a new venture, marketing, managing, financial, and administrative controls. 54 lecture hours.

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### BUS 172 Human Resource Management 3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

The study of Human Resources Management emphasizing employer/employee relationships, communications, job analysis and description, job motivation and productivity, employee benefits, principles of collective bargaining, labor relations, O.S.H.A., and affirmative action. 54 lecture hours.

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### BUS 175 Introduction to Management 3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

A course focusing on communication, decision making, and leadership for administrative and managerial positions in business, government, the professions, and the volunteer sector. 54 lecture hours.

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<td>08/21-12/12</td>
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### BUS 192 Advertising 3 Units

Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.

A study of media advertising, including magazine, television, radio, newspaper, and direct mail; the purpose and cycles of advertising; laws affecting advertising; and economic effects of advertising. 54 lecture hours.

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</table>

### CHEM 103 College Chemistry 5 Units

Prerequisite: MATH 030. The first semester of a year program includes chemistry of inorganic compounds; covers topics of nomenclature, stoichiometry, bonding, chemical equations, gas laws, solutions, acids and bases, nuclear processes and chemical equilibrium. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy, and home economics. 72 lecture hours, 72 lab hours.

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<tr>
<th>CRN</th>
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<tr>
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</table>

### BUS 176 Environment I 3 Units

The first semester of a year program includes chemistry of inorganic compounds; covers topics of nomenclature, stoichiometry, bonding, chemical equations, gas laws, solutions, acids and bases, nuclear processes and chemical equilibrium. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy, and home economics. 72 lecture hours, 72 lab hours.

<table>
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<tr>
<th>CRN</th>
<th>Instructor</th>
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<th>Room</th>
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### CHEM 104 College Chemistry 5 Units

Prerequisite: CHEM 103 or CHEM 110. The second semester of a year program includes chemistry of organic compounds; covers topics in biochemistry including carbohydrates, fats, proteins, metabolism, nucleic acids, and nutrition. Required for students transferring to four-year college nursing programs and students majoring in physical therapy, occupational therapy and home economics. 72 lecture hours, 72 lab hours.

<table>
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<tr>
<th>CRN</th>
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</table>
CHEM 110  Beginning General Chemistry  5 Units
Prerequisite: MATH 142 or MATH 150. MATH 150 may be taken concurrently. Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
An introductory course in the fundamental principles of chemistry. Topics covered are those necessary for understanding chemical structure and reactivity, and for scientific calculations. There is an emphasis on laboratory work and communication skills. The course is designed for science and engineering majors, pre-medical students, and as a general education class.
54 lecture hours, 126 lab hours. CSU UC

22236  Miles, T.  TR 11:30 AM-12:55 PM  PS 113  08/21-12/12
22237  Miles, T.  MW 07:35 AM-11:10 AM  PS 222  08/21-12/12
22238  Miles, T.  MW 10:10 PM-01:45 PM  PS 222  08/21-12/12
22239  Miles, T.  TR 07:35 AM-11:10 AM  PS 222  08/21-12/12
22240  Ryba, D.  TR 11:30 AM-12:55 PM  PS 113  08/21-12/12
22241  Ryba, D.  TR 07:35 AM-11:10 AM  PS 222  08/21-12/12
22242  Ryba, D.  TR 11:30 AM-12:55 PM  PS 113  08/21-12/12
22243  Ryba, D.  TR 07:35 AM-11:10 AM  PS 222  08/21-12/12
22244  Montgomery, R.  TR 04:55 PM-06:20 PM  PS 113  08/21-12/12
22245  Montgomery, R.  TR 04:55 PM-06:20 PM  PS 113  08/21-12/12
22246  Montgomery, R.  MW 01:10 PM-04:45 PM  PS 222  08/21-12/12
22247  Montgomery, R.  TR 04:55 PM-06:20 PM  PS 113  08/21-12/12
22248  Montgomery, R.  TR 04:55 PM-06:20 PM  PS 113  08/21-12/12
22249  Montgomery, R.  MW 06:30 PM-10:05 PM  PS 222  08/21-12/12

CHEM 111  General Chemistry  5 Units
Prerequisite(s): MATH 142 or MATH 150. Passing score on Chemistry Placement Test or CHEM 110. A general course in the fundamental principles of chemistry. Topics covered include periodicity, stoichiometry, nomenclature, atomic structure, bonding, chemical calculations, thermodynamics, intermolecular forces, gases and organic chemistry. The course is designed for all science and engineering majors and pre-medical students. 54 lecture hours, 126 lab hours. CSU UC

22253  Enutsu, R.  TR 11:30 AM-12:55 PM  LH 103  08/21-12/12
22254  Enutsu, R.  TR 07:35 AM-11:10 AM  PS 211  08/21-12/12
22255  Enutsu, R.  TR 07:35 AM-11:10 AM  PS 211  08/21-12/12
22469  Mayo, D.  TR 08:00 AM-09:25 AM  PS 106  08/21-12/12
22505  Mayo, D.  TR 02:50 PM-06:25 PM  PS 211  08/21-12/12

CHEM 112  General Chemistry  5 Units
Prerequisite: CHEM 111. A general course in the fundamental principles of chemistry. CHEM 112 is a continuation of CHEM 111 and includes topics of equilibrium, kinetics, acid-base chemistry, electrochemistry, nuclear processes, coordination chemistry and thermodynamics. 54 lecture hours, 126 lab hours. CSU UC

22256  Miles, T.  TR 11:30 AM-12:55 PM  PS 222  08/21-12/12
22257  Miles, T.  TR 07:35 AM-11:10 AM  PS 203  08/21-12/12

CHEM 210  Organic Chemistry A  3 Units
Prerequisite: CHEM 112. A course in organic chemistry including the properties and reactions of alkanes, alkenes, alkynes, alcohols, ethers, thiols, emphasizing fundamental principles and reaction mechanism, stereochemistry and IR spectroscopy. First semester of a one-year course, required for students enrolled in pre-professional programs in medicine, dentistry, pharmacy, veterinary science, biology, and chemistry. CHEM 211L required concurrently for most stated majors. 54 lecture hours. CSU UC

20503  Farahani, B.  MW 07:40 AM-09:05 AM  PS 113  08/21-12/12

CHEM 211L  Organic Chemistry A Laboratory  1 Units
Prerequisites: CHEM 210 (or concurrent enrollment) and CHEM 112. Introduction to organic laboratory techniques such as melting point, crystallization, distillation, thin layer chromatography, extraction. Synthesis of an ether and an alkene. 54 lab hours. CSU UC

20665  Farahani, B.  F 12:30 PM-03:40 PM  PS 211  08/21-12/12

Child Development

CHLD 100  Introduction to Education and Teaching Grades K-12  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course is an introductory course for students wishing to explore the teaching profession in the K-12 setting. Topics include an introduction to teacher performance expectations and California Standards for the teaching profession. Other topics include pedagogical strategies, curriculum design, California subject matter standards, use of technology in today's classroom and the importance of current issues and legislation. In addition, students are REQUIRED to observe 45 hours in K-12 classrooms to complete the course successfully. 54 lecture hours. CSU

20383  Bartelt, L.  MW 09:55 AM-11:20 AM  LB 107  08/21-12/12
20390  Bartelt, L.  F 11:30 AM-02:40 PM  LB 107  08/21-12/12

CHLD 110  Early Childhood Development  3 Units
This introductory course examines the major physical, psychosocial, and cognitive/behavioral developmental milestones for children, both typical and atypical, from conception through early childhood. There will be an emphasis on interactions between maturational processes and environmental factors. While studying development, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. 54 lecture hours. CSU

20378  Hahn, S.  MW 11:30 AM-12:55 PM  LB 107  08/21-12/12
20394  Hahn, S.  TR 11:30 AM-12:55 PM  LB 107  08/21-12/12

CHLD 112  Principles of Early Childhood Education I  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course is designed to introduce students to the theoretical principles of developmentally appropriate practice as applied to programs and environments with an emphasis on the role of relationships, constructive adult-child-parent interactions, and teaching strategies that support physical, social/emotional, creative and intellectual development for all young children regardless of their individual and diverse needs. Observation, analysis and assessment of programs for young children will be required. The course includes a review of the historical roots of early childhood programs and the evolution of professional practices promoting advocacy, ethics and professional identity. 54 lecture hours.

CSU

20435  Doolittle, J.  MW 11:30 AM-12:55 PM  LB 310  08/21-12/12
20895  Mitchell, M.  T 07:00 PM-10:10 PM  LB 107  08/21-12/12

CHLD 114  Home-Child-Community Relations  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
An examination of the developing child in a societal context which focuses on the interrelationships of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted. The course includes an examination of community resources, the teacher's role and the influences of age, gender, diverse abilities, culture, socio-economic status and public policy factors that affect children and families. 54 lecture hours. CSU

20437 Hahn, S.  TR  01:05 PM-02:30 PM  LB 107  08/21-12/12
20423 Hahn, S.  W  07:00 PM-10:10 PM  LB 107  08/21-12/12

CHLD 116  Introduction to Curriculum  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course will present an overview of knowledge and skills related to providing curriculum and environments for young children from birth through age six. Examination of the teacher's role in supporting learning and development in young children with an emphasis on the essential role of play. This course provides strategies for developmentally appropriate practice based on observation and assessments across the curriculum including the following areas: 1) language and literacy, math and science, 2) creative art and experiences 3) development of physical, social-emotional and cognitive skills. 54 lecture hours. CSU

20825 Hahn, S.  TR  09:55 AM-11:20 AM  LB 107  08/21-12/12
20826 Hahn, S.  W  03:40 PM-05:00 PM  LB 107  08/21-12/12

CHLD 120  Literacy for Children  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course will explore teaching strategies, interactions and environments necessary for nurturing early language development and literacy skills in the preschool and early school-age child. Students will analyze developmentally appropriate curriculum that supports children's emerging understanding of life, earth and physical science concepts. This course provides exposure to formal, informal and incidental science activities and direct use of science materials. Students will analyze the teacher's role in incorporating science concepts within the total program for children. 18 lecture hours. CSU

20455 Doolittle, J.  MW  01:05 PM-02:30 PM  LB 107  08/21-12/12

CHLD 121  Art for Children  2 Units
Designed to provide the student with opportunities to experience and evaluate art and crafts materials used with the preschool and early school-age child to discover the development of creativity in children. The student will design developmentally appropriate art curriculum and explore ways to support creative thinking and experiences for children. Students will gain appreciation for art and creative thinking within diverse cultures and society at large. 36 lecture hours. CSU

20479 Gallo, M.  M  03:50 PM-05:55 PM  LB 107  08/21-12/12

CHLD 123  Science Experiences for Children  1 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course focuses on planning and implementing science experiences with preschool and early school-age children. Students will analyze and plan developmentally appropriate curriculum that supports children's understanding of life, earth and physical science concepts. This course provides exposure to formal, informal and incidental science activities and direct use of science materials. Students will analyze the teacher's role in incorporating science concepts within the total program for children. 18 lecture hours. CSU

20486 Pecoraro, S.  F  09:15 AM-11:20 AM  LB 107  08/21-10/17

CHLD 144  Health, Safety and Nutrition for Young Children  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course involves self-reflection of one's own understanding of educational principles as one integrates anti-bias goals to better inform teaching practices and program development. Students will examine the development of social identities in diverse societies including theoretical and practical topics affecting young children, families, programs, teaching and education/schooling. Included is an examination of culturally relevant and linguistically appropriate approaches that support all children in becoming competent members of a diverse society. 54 lecture hours. CSU

21536 Simpson, L.  T  11:30 AM-02:40 PM  LB 102  08/21-12/12

CHLD 154  Observing and Recording Behavior  3 Units
Prerequisites: CHLD 110 or PSY 206. Also, CHLD 112.
This course focuses on the appropriate use of assessment and observation strategies to document development, growth, curriculum and activities in early childhood. Students will practice a variety of techniques in a variety of different settings including; recording strategies, rating systems, portfolios, and multiple assessment tools. 54 lecture hours. CSU

20508 Doolittle, J.  T  03:40 PM-06:50 PM  LH 103  08/21-12/12

CHLD 181  Infant and Toddler Caregiver: Relationships  1 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
First Eight Weeks
This is one of four one-unit classes in Infant and Toddler Caregiving based on the Responsive Caregiving approach. This course will examine the impact of teacher/parent relationships on the quality of Infant and Toddler Caregiving and review and evaluate techniques for supporting families. This class is a required class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

21538 Simpson, L.  T  03:50 PM-05:55 PM  LB 102  08/21-10/17

CHLD 182  Infant and Toddler Caregiver: Socialization and Emotional Development  1 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Second Eight Weeks
This is one of four one-unit classes in Infant and Toddler Caregiving based on the Responsive Caregiving approach. This class partially meets the licensing requirement for 3 units in infant and toddler care and development. 18 lecture hours.

21539 Simpson, L.  T  03:50 PM-05:55 PM  LB 102  10/19-12/12
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<tr>
<th>CRN</th>
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<tr>
<td>21896</td>
<td>Gallo, M.</td>
<td>R</td>
<td>07:00 PM-10:10 PM</td>
<td>LB 102</td>
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</table>

CHLD 190 Administration of Early Childhood Education Programs I

Prerequisites: CHLD 110 or 111 or PSY 206 and CHLD 112 and 114. Students who meet one of the following conditions may also qualify for this course: (1) Students who possess a California Child Development "Teacher" level permit on the state-wide permit matrix or (2) Students with two years of work experience at the teacher level in early childhood education.

This course is an introduction to the basic principles of administration of early childhood education programs. Includes specific topics of curriculum, development and evaluation; staff selection, supervision and evaluation; laws and regulations; site development and supervision; budgeting and fiscal management; parent education; health and safety supervision; time management and problem solving techniques. This class meets state requirements for supervision of Title XXII preschool programs. 54 lecture hours. CSU

21897 | Gallo, M.    | W      | 07:00 PM-10:10 PM   | LB 303   |    |

CHLD 194 Personnel Issues in Adult Supervision and Mentoring

Prerequisites: CHLD 156 and CHLD 156L.

This course addresses those personnel issues most often encountered by administrators of Early Childhood Education programs including: policies and procedures for selection and supervision of staff; pre-service and in-service education; leadership and motivation; team building; conflict resolution; supervision and evaluation. 54 lecture hours. CSU

20047 | Schmiedt, P. | F      | 09:00 AM-12:10 PM   | TC 123   |    |

COMM 100 Public Relations

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A survey of public relations history, theories and practices with emphasis on applications to business, public agencies and institutions. A practical approach to using the media, creating publicity releases, organizing and executing campaigns. Explores job opportunities of particular interest to communications majors. 54 lecture hours. CSU

22122 | Long, S.     | MW     | 01:00 PM-02:30 PM   | NB 100   |    |

COMM 320 Desktop Publishing

Prerequisite: COMM 101.

Computer instruction and practice. Analysis of story structures and effectiveness of written material, rewrite, correction of errors, proofreading, headline writing, news and picture evaluation, and page design. Hands-on experience working on student publications with the college newspaper and magazine staffs. 54 lecture hours, 54 lab hours. CSU

20050 | O'Neil, M.   | MW     | 11:30 AM-12:35 PM   | TC 123   |    |

CHIN 101 Chinese I

5 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A course in elementary Chinese (Mandarin) grammar, vocabulary and pronunciation which aims at understanding, speaking, reading and writing simple Chinese and serves as an introduction to Chinese geography and culture. 90 lecture hours. CSU

21500 | Chai, H.     | MW     | 03:50 PM-06:20 PM   | P1 104   |    |

Computations

COMM 100 Mass Media and Society

3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A survey and evaluation of mass media in economic, historical, political, psychological, and sociological terms. Focuses on helping the media consumer understand the power and significance of mass communications: books, newspapers, magazines, radio, television, motion pictures, the Internet, public relations, and advertising. Discusses the rights and responsibilities and interconnectedness of media in a diverse global society. Required for all communications and journalism majors; also a general interest course. 54 lecture hours. CSU

20674 | Schmiedt, P. | M      | 08:40 AM-09:45 AM   | TC 127   |    |

COMM 101 Reporting and Writing News

3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

An introduction to defining, gathering, and writing the news. Stresses accuracy, objectivity, fairness, and balance. Practice in interviewing techniques, following rules of professional style, and writing basic news story structures for print, broadcast and online publications. Discussion of issues involving press rights and responsibilities, cultural sensitivity, taste, libel, and ethics. Required of all communication and journalism majors. 54 lecture hours. CSU

20043 | O'Neil, M.   | TR     | 09:55 AM-11:20 AM   | TC 127   |    |

COMM 103 Freelance Journalism

1 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

This course is designed to accommodate students who wish to contribute to the campus newspaper, magazines and/or student publications websites but are unable to enroll in regular staff classes. Students who are interested in advertising, writing, photography, art, graphics and/or page design may participate in student publications to a limited extent through this class. 54 lab hours. CSU

20045 | Schmiedt, P. | F      | 09:00 AM-12:10 PM   | TC 123   |    |

COMM 230 Desktop Publishing

3 Units

Prerequisite: COMM 101.

Computer instruction and practice. Analysis of story structures and effectiveness of written material, rewriting, correction of errors, proofreading, headline writing, news and picture evaluation, and page design. Hands-on experience working on student publications with the college newspaper and magazine staffs. 36 lecture hours, 54 lab hours. CSU

20050 | O'Neil, M.   | MW     | 11:30 AM-12:35 PM   | TC 123   |    |

COMM 240 Multimedia Newsroom: Intermediate Staff

3 Units

Prerequisite: COMM 240A.

A lecture/laboratory journalism course that produces the college newspaper, the Clarion, and its website. Beginning staff members learn facts-based story telling techniques and modern news production skills. In collaboration with other publications classes, beginning staffers write, photograph, illustrate, and edit news, features and opinions for publication for student media. 36 lecture hours, 54 lab hours. CSU

22200 | O'Neil, M.   | M      | 08:40 AM-09:45 AM   | TC 123   |    |

COMM 245 Editorial Board

2 Units

Strongly recommended: COMM 101. Also, ENGL 099 if required by English placement or if required by English level.

A study of the major aspects of editorial responsibilities. The course provides practical instruction and experience for campus editors in writing, editing, and evaluating editorials in student media, as well as formulating editorial policy. 36 lecture hours. CSU

22225 | O'Neil, M.   | TR     | 11:30 AM-12:20 PM   | TC 123   |    |

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 914-8833
### Computer Information Systems

**CIS 099 Introduction to Windows and Personal Computers**
- 2 Units
- Strongly recommended: ENGL 099 if required by English placement or if required by English level.
- This course covers computer literacy concepts. It provides an introduction to the personal computer via the Windows operating systems. The course prepares students to operate a computer using the Windows graphical user interface. It is designed for students with no previous computer experience. 36 lecture hours.

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</table>

**CIS 107 Information Systems and Applications**
- 4 Units
- Strongly recommended: CIS 099. ENGL 099 if required by English placement or if required by English level. Also, knowledge of MS Windows.
- This course covers essential concepts of information technology. Topics include computer hardware, software, programming concepts, network/internet technologies, ethics and emerging technologies. 72 lecture hours. CSU UC

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<td>HRS-ARRG</td>
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**CIS 130 Microcomputer Applications I**
- 4 Units
- Strongly recommended: CIS 099. Also, ENGL 099 if required by English placement or if required by English level.
- Students will use the personal computer to learn an office suite, such as Microsoft Office, that includes word processing, electronic spreadsheets, database management systems, multimedia/presentation graphics, personal information management and an introduction to the Windows OS. This course prepares the student to take the Microsoft Office User Specialist certification exam. 72 lecture hours. CSU UC

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**Computer Science**

**CS 111 Introduction to Programming Concepts and Design**
- 4 Units

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<th>CRN</th>
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<td>IS 110</td>
<td>08/21-12/12</td>
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</tbody>
</table>

**CS 225 Object Oriented Programming**
- 3 Units
- Strongly recommended: CS 111 and MATH 142 or MATH 150.
- This course introduces the discipline of computer science using a high level language utilizing programming and practical hands-on problem solving. Topics include the use of functions and parameter passing, simple I/O, control structures, user-defined data types, arrays, searching and sorting, algorithms and debugging strategies, data abstraction, concept of types and software development methods. 54 lecture hours, 54 lab hours. CSU UC

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<td>21692</td>
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<td>M</td>
<td>11:20 AM-12:25 PM</td>
<td>PC 317</td>
<td>08/21-12/12</td>
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**Cosmetology**

**COS 141 Introduction to Cosmetology**
- 11 Units
- Strongly recommended: ENGL 099 if required by English placement or if required by English level.
- This is the introductory course for students majoring in cosmetology. The course includes the exploration of a variety of subjects including haircutting, hairstyling, skin care, nail care, hair coloring, chemical texturizing and practical experience in cosmetology. Material fee. 144 lecture hours, 144 lab hours.

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<tbody>
<tr>
<td>20897</td>
<td>Morrish, M.</td>
<td>MW</td>
<td>08:00 AM-11:25 AM</td>
<td>MTWF 208</td>
<td>08/21-10/17</td>
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<tr>
<td>20898</td>
<td>Morrish, M.</td>
<td>TR</td>
<td>11:35 AM-03:00 PM</td>
<td>MTWF 208</td>
<td>08/21-10/17</td>
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</table>

**Additional fees for the Cosmetology Program Kit are approximately $2,000. The Kit must be purchased on-line from the Owl Book Store link at time of registration or on the first day of class to be able to continue in the Program. Call the Department at 626/914-8710 for further questions.**

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<tr>
<th>CRN</th>
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<tr>
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<td>11:45 AM-03:20 PM</td>
<td>MTWF 208</td>
<td>10/19-12/12</td>
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</tbody>
</table>
COS 161  Haircolor  8 Units
Prerequisite: COS 141.
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A continuation of the science, theory, professional haircoloring techniques, and procedures following COS 141. Lectures, demonstrations, and practical experience in the following areas: advanced hair coloring procedures, advanced lightening procedures, specialized color application, and corrective haircolor. 80 lecture hours, 208 lab hours.
22050 Graciano, A. MTWRF 08:00 AM-09:40 AM PC 113 08/21-10/17
Graciano, A. MTWRF 09:50 AM-03:00 PM PC 113 08/21-10/17
22051 Hernandez, S. MTWRF 08:00 AM-10:05 AM PC 113 10/19-12/12
Hernandez, S. MTWRF 10:15 AM-03:30 PM PC 113 10/19-12/12

COS 181  Hairsculpting  8 Units
Prerequisite: COS 141.
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A continuation of the theory of professional haircutting techniques and procedures introduced in COS 141. Lectures, demonstrations and practical experience in the following areas: ladies haircutting, male haircutting and clipper cutting. 80 lecture hours, 208 lab hours.
22052 Hernandez, S. MTWRF 08:00 AM-09:40 AM PC 108 08/21-10/17
Hernandez, S. MTWRF 09:50 AM-03:00 PM PC 108 08/21-10/17
22053 Bautista, S. MTWRF 08:00 AM-10:05 AM PC 108 10/19-12/12
Bautista, S. MTWRF 10:15 AM-03:30 PM PC 108 10/19-12/12

COS 185  Skin and Nail Care  9 Units
Prerequisite: COS 141.
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
A continuation of the science and theory of professional skin care and nail care introduced in COS 141. Lectures, demonstrations and practical experience in the following areas: facial treatments, electricity, anatomy, hair removal, nail treatments, nail enhancements and products. 120 lecture hours, 168 lab hours.
22054 Bautista, S. MTWRF 08:00 AM-09:40 AM PC 109 08/21-10/17
Bautista, S. MTWRF 09:50 AM-03:00 PM PC 109 08/21-10/17
22055 Glover, P. MTWRF 08:00 AM-10:05 AM PC 109 10/19-12/12
Glover, P. MTWRF 10:15 AM-03:30 PM PC 109 10/19-12/12

COS 191  Hair Design  8 Units
Prerequisite: COS 141.
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A continuation of the science and theory of professional hairstyling techniques and procedures introduced in COS 141. Lectures, demonstrations and practical experience in the following areas: hair care, set design, thermal styling, long hair design and creative artistry in hair design. 80 lecture hours, 208 lab hours.
22056 Glover, P. MTWRF 08:00 AM-09:40 AM PC 112 08/21-10/17
Glover, P. MTWRF 09:50 AM-03:00 PM PC 112 08/21-10/17
22058 Graciano, A. MTWRF 08:00 AM-10:05 AM PC 112 10/19-12/12
Graciano, A. MTWRF 10:15 AM-03:30 PM PC 112 10/19-12/12

COS 199A  Esthetician I  8 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
An introductory course of skin care treatments, hair removal, make-up application, anatomy and physiology. This course also includes massage techniques, sanitation and disinfecting, disease and disorders of the skin, cosmetic chemistry, electrical current and modalities for skin care. The course focuses on the basic skills required to achieve a State Board License. Phase one of a three-part course. 72 lecture hours, 216 lab hours.
21650 Everett, A. MTWRF 08:00 AM-09:50 AM TC 118 08/21-10/17
Everett, A. MTWRF 10:00 AM-03:10 PM TC 118 08/21-10/17
22049 Lahham, M. MTWRF 05:30 PM-06:45 PM TC 118 08/21-12/12
Lahham, M. MTWRF 06:55 PM-09:45 PM TC 118 08/21-12/12

COS 199B  Esthetician II  8 Units
Prerequisite: COS 199A.
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
This course is phase two of the esthetician program. A basic course which includes state board preparedness, customized facial treatments, the psychology of services, make-up artistry, color coordination, product knowledge and aromatherapy. Must be completed before entering phase three, "Salon Fundamentals". 72 lecture hours, 216 lab hours.
21651 Everett, A. MTWRF 08:00 AM-10:05 AM TC 118 10/19-12/12
Everett, A. MTWRF 10:15 AM-03:30 PM TC 118 10/19-12/12

COS 201  Texture  8 Units
Prerequisite: COS 141.
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A continuation of the science and theory of professional permanent waving and straightening procedures introduced in COS 141. Lectures, demonstrations and practical experience in the following areas: chemical hair reformation techniques, treatments and formulations. 80 lecture hours, 208 lab hours.
22059 Hernandez, S. MTWRF 08:00 AM-09:40 AM PC 122 08/21-10/17
Hernandez, S. MTWRF 09:50 AM-03:00 PM PC 122 08/21-10/17
22060 Hernandez, S. MTWRF 08:00 AM-10:05 AM PC 122 10/19-12/12
Hernandez, S. MTWRF 10:15 AM-03:30 PM PC 122 10/19-12/12

Counselling

COUN 101  Career Self-Assessment  1 Units
In this course the student will learn to appraise their self-esteem, values, skills and personality, and understand the implication of these factors in the selection of a vocational/educational goal. 18 lecture hours.
22141 Desimone, N. MW 10:10 AM-10:50 AM SS 166 08/21-10/17
First 8 Weeks.

COUN 102  Career Research  1 Units
Research is a necessary component to career decision-making. In this course the student will develop an understanding of a wide assortment of career information resources, both written and computer assisted. The focus of this course is to introduce the student to the use of the most recent career related technologies. 18 lecture hours.
22142 Desimone, N. MW 10:10 AM-10:50 AM SS 166 10/19-12/12
Second 8 Weeks.

COUN 145  Career/Life Planning  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Through personal exploration, occupational research and the study of contemporary work issues, students will increase their understanding of the relationship of the individual to the economic community and develop individual career plans. 54 lecture hours. CSU
21180 Yee, S. HRS-ARRG 08/21-12/12
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/distance
22077 Herrera, R. HRS-ARRG 08/21-12/12
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/distance
21721 Giannamalva, A. TR 11:30 AM-12:55 PM SS 211 08/21-12/12
21722 Pearson, L. TR 03:30 PM-04:55 PM SS 166 08/21-12/12
21637 Rivadeneira, W. TR 04:00 PM-07:10 PM SS 211 08/21-12/12
21265 Yee, S. HRS-ARRG 08/21-12/12
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/distance

COUN 159  On Course to Success  3 Units
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
The subject of this course is SUCCESS... what success is for you personally and how you can achieve it. Students will learn many proven strategies for creating greater academic, professional, and personal success. Guided journal writings will be used to explore these strategies, and as a bonus, students will learn to express themselves more effectively in writing. This course will help students discover how to create a rich, personally fulfilling life. Students are urged to make the most of this course in order to dramatically change the outcome of their lives for the better. 54 lecture hours. CSU
21181 McLeod, J. MW 09:55 AM-11:20 AM SS 165 08/21-12/12
20738 Castillo, C. TR 09:55 AM-11:20 AM SS 211 08/21-12/12
LEARNING COMMUNITIES CLASS: Requires enrollment in ENGL 099 CRN 22450.
20740 Concepcion, F. MW 09:55 AM-11:20 AM SS 211 08/21-12/12
### Schedule of Credit Classes - Fall 2015

<table>
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<th>CRN</th>
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#### DISTANCE EDUCATION CLASS
After registering go to [www.citruscollege.edu/de](http://www.citruscollege.edu/de)

#### LEARNING COMMUNITIES CLASS
Requires enrollment in ENGL 099 CRN 21146, MATH 029 CRN 21540 (1st 8 weeks) and MATH 032 CRN 22036 (2nd 8 weeks).

### COUN 160 Strategies for College Success
3 Units
- Strongly recommended: ENGL 099 if required by English placement or if required by English level.
- A course designed to give students the opportunity to create and change their habits and vision in order to have a rich, full, and rewarding scholastic life through adoption of positive attitude and critical thinking techniques. The course integrates the intellectual, physiological, social, and psychological aspects of being a student. Learning strategies will be introduced that can be immediately and continuously applied so that students leave the course with confidence, enthusiasm, and a passion to succeed. 54 lecture hours. CSU UC

### COUN 161 Higher Education Transitional Skills for Student Veterans/Families
3 Units
- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- A course designed to assist veterans in re-integrating to civilian life using physiological, social and psychological aspects of being a student. This course is also designed to give the veteran student the opportunity to create and change their habits and vision in order to have a rich, full, and rewarding scholastic life through adoption of positive attitude and critical thinking techniques. The course will introduce strategies to increase self-awareness, build confidence, develop leadership and gain informational tools to help achieve successful habits and implement study skills addressing the veteran student’s needs. It will provide an essential opportunity to acquire skills applicable to the student’s academic program, family life, and employability which will support transition. 54 lecture hours. CSU UC

### COUN 200 Educational Planning for Student Success
1 Units
- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- An orientation to Citrus College that includes programs, services, policies, degrees, certificates, transfer requirements, and college culture. Focus will be on strategies needed for academic success and the development of a Comprehensive Educational Plan. 18 lecture hours. CSU UC

### DANC 102 History of Dance
3 Units
- A survey of dance from tribal, ethnic, and folk dance forms including Renaissance Europe, Louis XIV, the Golden Age of Ballet, and the Diaghilev Era, concluding with 20th Century dance including jazz, African-American influences, neo-classic ballet, modern, hip-hop and world dance. 54 lecture hours. CSU UC

### DANC 103 Introduction to Dance
1 Units
- An introduction to dance as an art form through lecture and activity. The student will experience historical and contemporary dance forms, such as ballet, modern, jazz, hip hop, and tap. This is the pre-requisite course for all beginning level technique classes. 18 lecture hours, 18 lab hours. CSU UC

### DANC 130 Alignment and Correctives
2 Units

### DANC 158 Beginning Hop-Hop Dance Techniques
1 Units
- Prerequisite: DANC 103 or Audition.
- A survey of the basic skills of hip-hop dance technique and history. This class provides basic technique, warm-ups, stretching, body control and stamina progressing to hip-hop dance combinations. This class prepares students specifically for occupational dance performance techniques in the hip-hop commercial dance industry. 18 lecture hours, 18 lab hours. CSU UC

### DANC 159 Beginning Tap
1 Units
- Prerequisite: DANC 103 or Audition.
- Designed to instruct students in the dance technique of beginning tap. 18 lecture hours, 18 lab hours. CSU UC

### DANC 160 Jazz Dance Techniques
1 Units
- Prerequisite: DANC 103 or Audition.
- A survey of the beginning level skills in jazz movement. This class provides basic technique and practice warm-ups, stretching, body control, and the building of stamina and strength progressing to dance combinations. 18 lecture hours, 18 lab hours. CSU UC

### DANC 161 Beginning Modern Dance
1 Units
- The study of dance through varied individual and group experiences in Beginning Modern Dance, with emphasis on increasing the individual’s ability to use movement creatively. 18 lecture hours, 18 lab hours. CSU UC

### DANC 162 Beginning Ballet
1 Units
- Prerequisite: DANC 103 or Audition.
- Designed to instruct students in the beginning level dance technique of classical ballet. Ballet barre, center floor and classical technique of classical ballet are covered. 18 lecture hours, 18 lab hours. CSU UC

### DANC 258 Intermediate Hip-Hop Dance
1 Units
- Prerequisite: DANC 158.
- A survey of the intermediate level skills of hip-hop dance technique and history. This class provides intermediate level technique, warm-ups, stretching, body control and stamina progressing through hip-hop dance combinations. This class prepares students specifically for occupational dance performance techniques in the hip-hop commercial dance industry. 18 lecture hours, 18 lab hours. CSU UC

### DANC 259 Intermediate Tap I
1 Units
- Prerequisite: DANC 159 or Audition.
- Designed to instruct students in the intermediate dance technique of tap. More study of the positions and combinations of tap. 18 lecture hours, 18 lab hours. CSU UC

Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 909-478-1711
DANC 260 Intermediate Jazz Dance I  
Prerequisite: DANC 160 or Audition.  
Development of the techniques necessary to execute modern jazz dance. This class is designed to further develop the techniques of the student with intermediate instruction in stretching, body control, strength, stamina, more challenging dance combinations and progression of personal style. 18 lecture hours, 18 lab hours. CSU UC.  
22072 Allgaier, J. S 10:15 AM-11:05 AM 08/21-12/12 VT 323  
Liskey, R. F 01:30 PM-02:20 PM VT 323 08/21-12/12  
Liskey, R. T 02:30 PM-03:35 PM VT 323 08/21-12/12  
Liskey, R. T 03:45 PM-04:35 PM VT 323 08/21-12/12  

DANC 262 Intermediate Ballet I  
Prerequisite: DANC 162 or Audition.  
Designed to instruct students in the intermediate dance technique of classical ballet. A more in-depth study of the positions and combinations of ballet. 18 lecture hours, 18 lab hours. CSU UC.  
20129 Allgaier, J. W 04:30 PM-05:35 PM VT 323 08/21-12/12  
Allgaier, J. W 05:45 PM-06:35 PM VT 323 08/21-12/12  
Allgaier, J. S 09:00 AM-10:05 AM VT 323 08/21-12/12  
Allgaier, J. S 10:15 AM-11:05 AM VT 323 08/21-12/12  

DANC 263A Dance for Musical Theatre - Beginning  
Prerequisite: Audition.  
This course is an in-depth performance experience focusing on styles of body movement for Musical Theatre stage productions. The fundamentals of dance will be reviewed, including beginning ballet positions and exercises and beginning tap. Concepts of the history of dance in musical stage will also be explored. 36 lecture hours, 108 lab hours. CSU UC.  
22085 Vaughan, J. M 11:30 AM-01:35 PM VT 323 08/21-12/12  
Vaughan, J. F 05:45 PM-08:05 PM VT 208 08/21-12/12  
Vaughan, J. U 08:20 AM-11:25 AM VT 323 08/21-12/12  

DANC 263B Dance for Musical Theatre-Intermediate  
Prerequisite: DANC 263A or Audition.  
This course is an in-depth performance experience focusing on styles of body movement for Musical Theatre stage productions at the intermediate level. The fundamentals of dance will be reviewed, progressing to intermediate ballet positions as well as intermediate jazz, tap and musical theatre terminology. Concepts of the history of dance in musical stage will also be explored in greater detail. 36 lecture hours, 108 lab hours. CSU UC.  
22086 Vaughan, J. M 11:30 AM-01:35 PM VT 323 08/21-12/12  
Vaughan, J. F 05:45 PM-08:05 PM VT 208 08/21-12/12  
Vaughan, J. U 08:20 AM-11:25 AM VT 323 08/21-12/12  

DANC 264 Beginning Popular Dance Techniques  
Prerequisite: Audition.  
This course is an in-depth performance experience focusing on popular dance styles. The fundamentals of dance will be reviewed, and a focus on modern dance styles and techniques will be explored. Concepts of commercial dance techniques for videos and pop stage will also be studied. 36 lecture hours, 108 lab hours. CSU UC.  
22036 Vaughan, J. F 02:30 PM-04:35 PM VT 323 08/21-12/12  
Vaughan, J. F 04:45 PM-06:30 PM VT 323 08/21-12/12  
Vaughan, J. S 11:15 AM-03:45 PM VT 323 08/21-12/12  

DANC 265A Musical Staging: Rehearsal and Performance - Beginning  
Prerequisite: Audition.  
Special rehearsal and public performance above and beyond normal class expectations. Beginning level musical staging techniques are explored in practical assignments for live theatrical production. 18 lecture hours, 54 lab hours. CSU UC.  
22087 Vaughan, J. W 11:30 AM-12:20 PM VT 323 08/21-12/12  
Vaughan, J. S 03:50 PM-07:00 PM VT 323 08/21-12/12  

DANC 265B Musical Staging: Rehearsal and Performance-Intermediate  
Prerequisite: DANC 265A or Audition.  
Special rehearsal and public performance in musical staging above and beyond normal class expectations- intermediate level. 18 lecture hours, 54 lab hours. CSU UC.  
22088 Vaughan, J. W 11:30 AM-12:20 PM VT 323 08/21-12/12  
Vaughan, J. S 03:50 PM-07:00 PM VT 323 08/21-12/12  

DANC 266 Pop Dance: Rehearsal and Performance - Beginning  
Prerequisite: Audition.  
Special rehearsal and public performance above and beyond normal class expectations - beginning level. 18 lecture hours. 54 lab hours. CSU UC.  
22495 Vaughan, J. F 02:30 PM-03:20 PM VT 323 08/21-12/12  
Vaughan, J. F 03:30 PM-06:35 PM VT 323 08/21-12/12  

DANC 269 Intermediate Tap II  
Prerequisite: DANC 259 or Audition.  
A more in-depth study of students' abilities and techniques in tap dance progressing from the intermediate to advanced level. Increased emphasis on style, speed and accuracy of sounds. 18 lecture hours, 18 lab hours. CSU UC.  
21764 Vaughan, J. R 11:30 AM-12:20 PM VT 323 08/21-12/12  
Vaughan, J. R 11:30 AM-12:20 PM VT 323 08/21-12/12  

DANC 270 Intermediate Jazz Dance II  
Prerequisite: DANC 260 or Audition.  
Designed to instruct students in the advanced techniques of advanced jazz dance for the purpose of performance. More challenging dance combinations and instruction in individual body control, strength, stamina, style, and line. 18 lecture hours, 18 lab hours. CSU UC.  
20144 Liskey, R. F 01:30 PM-02:20 PM VT 323 08/21-12/12  
Liskey, R. F 01:30 PM-02:20 PM VT 323 08/21-12/12  

DANC 272 Intermediate Ballet II  
Prerequisite: DANC 262 or Audition.  
A course in the advanced techniques of classical ballet for the purpose of performance. A more in-depth study of movement vocabulary centered on individual style, strength, and technique. 18 lecture hours, 18 lab hours. CSU UC.  
20135 Allgaier, J. W 04:30 PM-05:35 PM VT 323 08/21-12/12  
Allgaier, J. W 05:45 PM-06:35 PM VT 323 08/21-12/12  

DANC 279 Advanced Tap I  
Prerequisite: DANC 269 or Audition.  
An advanced study of students' abilities and techniques in tap dance. Increased emphasis on style, speed and accuracy of sounds. 18 lecture hours, 18 lab hours. CSU UC.  
22081 Vaughan, J. R 11:30 AM-12:20 PM VT 323 08/21-12/12  
Vaughan, J. T 11:30 AM-12:20 PM VT 323 08/21-12/12  

DANC 281 Advanced Jazz Dance I  
Prerequisite: DANC 270 or Audition.  
Designed to instruct students in the advanced techniques of advanced jazz dance for the purpose of performance. More challenging dance combinations and instruction in individual body control, strength, stamina, style, and line. 18 lecture hours, 18 lab hours. CSU UC.  
20148 Liskey, R. F 12:15 PM-01:20 PM VT 323 08/21-12/12  
Liskey, R. F 01:30 PM-02:20 PM VT 323 08/21-12/12  

Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 828-7584 or 828-7569
### DANC 284 Intermediate Popular Dance Techniques
Prerequisite: DANC 284 or Audition.
This course is an in-depth performance experience focusing on intermediate level popular dance styles. The fundamentals of dance will be reviewed, and a focus on modern dance styles and techniques will be explored. Concepts of commercial dance techniques for video and pop stage will also be studied. 36 lecture hours, 126 lab hours. CSU UC

### DANC 292 Advanced Ballet I
Prerequisite: DANC 272.
A course in the upper advanced techniques of classical ballet for the purpose of performance level technique and strength. An intense study of movement vocabulary centered on individual style, strength, and technique. 18 lecture hours, 18 lab hours. CSU UC

### DENT 100 Dental Assisting Basics
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course will give the beginning dental assisting student a foundational knowledge of basic terminology, structures of the oral cavity, tooth morphology, tissues of the teeth, charting, and oral health care. The student will be oriented to the profession of dentistry in terms of governing bodies, professional organizations, ethics and jurisprudence. 45 lecture hours.

### DENT 101 Chairside Assisting
Prerequisite: DENT 100 or concurrent enrollment.
This lecture/lab course provides preclinical instruction in four-handed dentistry techniques and prepares the student to assist a dentist at chairside. Content includes: the use and care of dental equipment, oral evacuation, instrument transfer, tray setups, infection control, preparation of anesthetic syringe, rubber dam, tofemmetry matrix, cavity preparation, and rotary and hand instruments. Emphasis is placed on the responsibilities of a chairside dental assistant during general restorative procedures. 45 lecture hours, 72 lab hours.

### DENT 102 Dental Materials
Prerequisite: DENT 100 or concurrent enrollment.
This course presents the basic physical and technical aspects of dental materials utilized in restorative, and laboratory dental procedures. It is designed to develop the manipulative skills necessary for the application of these materials. 36 lecture hours, 54 lab hours.

### DENT 122 Infection Control in the Dental Office
Prerequisite: DENT 100 or concurrent enrollment.
This course is designed to prepare the dental assistant in the prevention of disease transmission in the work environment. Emphasis is placed on knowledge of the infectious disease process, use of barriers, sterilization, disinfection, OSHA requirements, and the concept of standard precautions. 27 lecture hours.

### DENT 124 Dental Specialties
Prerequisite: DENT 100 or concurrent enrollment.
The scope of this course includes instruction in the fundamental principals, instrumentation and procedures of various dental specialties with emphasis on the role of the auxiliary in each specialty. 36 lecture hours.

### DENT 125 Dental Practice Management
Prerequisites: DENT 100. Also, DENT 101 or DENT 102.
This course is designed to provide instruction in the application of skills and responsibilities of a business assistant in a dental practice. Fundamentals in basic bookkeeping procedures, communication skills, appointment scheduling, dental insurance, records management, employment preparation, and banking/financial procedures. Instruction includes integration of material through lecture, practical experience and the use of computers. 36 lecture hours, 54 lab hours.

### DENT 201 Dental Radiology
Prerequisites: DENT 100, 101, and 102.
This course encompasses the preclinical and clinical instruction in radiation safety, exposing, processing and mounting of radiographs utilizing traditional and digital methods. Student must be 18 years of age or older. 18 lecture hours, 54 lab hours.

### DENT 212 Dental Specialties
Prerequisite: DENT 100 or concurrent enrollment.
This course is designed to provide instruction in the application of skills and responsibilities of a business assistant in a dental practice. Fundamentals in basic bookkeeping procedures, communication skills, appointment scheduling, dental insurance, records management, employment preparation, and banking/financial procedures. Instruction includes integration of material through lecture, practical experience and the use of computers. 36 lecture hours, 54 lab hours.

### DENT 201 Dental Radiology
Prerequisites: DENT 100, 101, and 102.
This course encompasses the preclinical and clinical instruction in radiation safety, exposing, processing and mounting of radiographs utilizing traditional and digital methods. Student must be 18 years of age or older. 18 lecture hours, 54 lab hours.

### DENT 212 Dental Specialties
Prerequisite: DENT 100 or concurrent enrollment.
This course is designed to provide instruction in the application of skills and responsibilities of a business assistant in a dental practice. Fundamentals in basic bookkeeping procedures, communication skills, appointment scheduling, dental insurance, records management, employment preparation, and banking/financial procedures. Instruction includes integration of material through lecture, practical experience and the use of computers. 36 lecture hours, 54 lab hours.

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### DENT 201 Dental Radiology
Prerequisites: DENT 100, 101, and 102.
This course encompasses the preclinical and clinical instruction in radiation safety, exposing, processing and mounting of radiographs utilizing traditional and digital methods. Student must be 18 years of age or older. 18 lecture hours, 54 lab hours.
DENT 203  Dental Practice Experience  5.5 Units
Prerequisites: DENT 122, 124, and 201.
This course provides the student with the opportunity for application and performance of acquired knowledge and skills while assuming the role of a chairside assistant in a dental school setting or private dental office. This course may be taken two times. Offered for Pass/No Pass grading only. 300 lab hours.
20433 Arendondo, D. HRS-ARRG FD 08/21-12/12
Seminars: September 4 and 18, October 2 and 16, from 3:00pm to 4:00pm and October 26, November 9 and 23, and December 7, from 10:45am to 11:45am in PC 215.
Course does not have Waitlist.

Disabled Student Prog & Serv
DPS 090  Empowerment for Students with Disabilities  2 Units
A course designed to facilitate successful transition to the collegiate level for new students with disabilities. Upon completion of this course, students will be better prepared to assert their needs, make decisions, and practice coping strategies pertinent to their unique situation. This course is offered for Pass/No Pass grading only. 36 lecture hours.
21648 Hernandez, M. TR 09:55 AM-11:00 AM SS 166 08/21-12/12

Drafting - Com Gen Imagery CGI
DRAF 290  Introduction to Maya Practices  3 Units
Strongly Recommended: DRAF 160 or DRAF 161 or digital art classes. Introduction to modeling, animation and render using Maya with a focus on establishing a working knowledge of Maya’s animation tools and techniques, this course builds a solid foundation for developing character animation and special effects sequences. The course uses the two different sections of the Learning Maya tutorial book to provide the student with an overview of the Maya environment and how it can be applied to their work. 36 lecture hours, 54 lab hours.
20976 Au, S. MW 02:00 PM-02:50 PM PC 306 08/21-12/12
20977 Au, S. MW 03:00 PM-03:50 PM PC 304 08/21-12/12

Drafting - Mechanical
DRAF 101  Beginning Computer Aided Design (CAD)  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A basic course for pre-engineering, pre-architecture students, and other students who have no previous Computer Aided Design (CAD) and mechanical drawing experience. 36 lecture hours, 72 lab hours.
21206 Yu, J. TR 08:00 AM-08:50 AM PC 304 08/21-12/12
21672 Au, S. MW 06:05 PM-06:55 PM PC 306 08/21-12/12
21673 Au, S. MW 07:05 PM-07:55 PM PC 304 08/21-12/12

DRAF 102  Visual Communication  2.5 Units
Strongly recommended: DRAF 101.
Visual communication of axonometric, oblique, and one, and two-point perspective drawings. Natural and man-made forms are analyzed. Color and texture of form are studied as they are revealed by light, shade, and shadow. Students’ perceptions of subject matter are translated into convincing visual expressions by learning the graphic skills and the use of a variety of media. Students sketch, draw, and render projects. 36 lecture hours, 36 lab hours.
21819 Tabata, F. TR 03:30 PM-04:20 PM PC 309 08/21-12/12
Tabata, F. TR 04:30 PM-05:35 PM PC 309 08/21-12/12

DRAF 160  Intermediate Computer Aided Design (CAD)  2.5 Units
Strongly recommended: DRAF 101, one year of high school drafting or industry drafting experience. Also, ENGL 099 if required by English placement exam or if required by English level.
An intermediate course in which the CAD system is applied to special problems in design. Techniques in creating symbol libraries are explored. Proper and efficient methods of producing plan views, sections, details and elevations are introduced along with dimensioning fundamentals and sheet layout. 36 lecture hours, 36 lab hours.
22405 Fernandes, R. MW 04:30 PM-05:35 PM PC 306 08/21-12/12
Fernandes, R. MW 05:45 PM-06:35 PM PC 304 08/21-12/12

Earth Science
ESCI 119  Physical Geology without Laboratory  3 Units
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
This course investigates the dynamic nature of the Earth through the study of earth processes including: plate tectonics, earthquakes and the Earth’s interior, mineral and rock systems, crustal deformation, weathering processes, glaciers, and deserts. Students may not receive credit for both ESCI 119 and ESCI 120.
54 lecture hours. CSU UC
21915 Hathaway, G. MW 08:20 AM-09:45 AM LH 102 08/21-12/12
21335 Fair, C. MW 11:30 AM-12:55 PM PS 107 08/21-12/12

ESCI 120  Physical Geology  4 Units
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
This course investigates the dynamic nature of the Earth through the study of earth processes including: plate tectonics, earthquakes and the Earth’s interior, mineral and rock systems, crustal deformation, weathering processes, glaciers, and deserts. Students may not receive credit for both ESCI 119 and ESCI 120.
54 lecture hours, 54 lab hours. CSU UC
22259 Hathaway, G. MW 09:55 AM-11:20 AM LH 102 08/21-12/12
Hathaway, G. M 11:30 AM-02:40 PM TC 122 08/21-12/12
Hathaway, G. W 11:30 AM-02:40 PM TC 122 08/21-12/12
Hathaway, G. T 11:30 AM-02:40 PM TC 122 08/21-12/12
Hathaway, G. TR 09:55 AM-11:20 AM LH 102 08/21-12/12
Hathaway, G. T 02:50 PM-06:00 PM TC 122 08/21-12/12
Hathaway, G. TR 09:55 AM-11:20 AM LH 102 08/21-12/12
Hathaway, G. R 11:30 AM-02:40 PM TC 122 08/21-12/12

ESCI 124  Environmental Geology  3 Units
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
Application of geologic principles to selected environmental problems. Topics include earthquakes, volcanism, mass movements, climate change, floods, coastal processes, mass extinctions, meteorite impacts, and population growth.
54 lecture hours. CSU UC
22276 Fair, C. MW 01:05 PM-02:30 PM PS 107 08/21-12/12

ESCI 130  Physical Oceanography  3 Units
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
A study of marine geology and topography, physical processes within the marine environment, such as waves and currents, tides, sea-floor spreading, marine provinces, marine sediments, and environmental relationships.
54 lecture hours. CSU UC
21334 Johnson, D. MW 05:25 PM-06:50 PM TC 122 08/21-12/12
22332 Hathaway, G. TR 08:20 AM-09:45 AM LH 102 08/21-12/12
20393 Hollenshead, M. TR 09:55 AM-11:20 AM PS 107 08/21-12/12
21381 Johnson, D. W 07:00 PM-08:15 PM TC 122 08/21-12/12
21554 Rath, C. F 08:00 AM-11:10 AM LH 102 08/21-12/12
### Economics

**ECON 101 Principles of Macroeconomics**  
**3 Units**  
Prerequisite: MATH 030.  
Strongly recommended: ENGL 099 if required by English placement or if required by English level.  
Introduction to the theory of aggregate economic analysis. Emphasis is on demand and supply, market systems, national income accounting, business cycles, unemployment, inflation, economic growth, macroeconomic equilibrium, money and banking, fiscal and monetary policy, international trade and finance.  
54 lecture hours, CSU UC  

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### English

**ENGL 098 English Fundamentals**  
**2 Units**  
This course focuses intensively on English fundamentals including grammar, spelling, and basic literacy skills such as sentence structure, vocabulary acquisition, mechanics and punctuation, literal comprehension, reading responses, and student learning strategies.  
18 lecture hours, 54 lab hours.  

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<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>22406</td>
<td>Cortez, B.</td>
<td>T</td>
<td>08:40 AM-09:45 AM</td>
<td>ED 258</td>
<td></td>
</tr>
<tr>
<td>22407</td>
<td>Huver, J.</td>
<td>W</td>
<td>08:35 AM-09:45 AM</td>
<td>ED 258</td>
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<tr>
<td>22408</td>
<td>Azpeitia, M.</td>
<td>W</td>
<td>11:30 AM-12:40 PM</td>
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<tr>
<td>22409</td>
<td>Beach, K.</td>
<td>T</td>
<td>11:30 AM-12:35 PM</td>
<td>ED 258</td>
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</tr>
<tr>
<td>22410</td>
<td>Do Carmo, P.</td>
<td>T</td>
<td>02:20 PM-03:25 PM</td>
<td>ED 258</td>
<td></td>
</tr>
<tr>
<td>22411</td>
<td>Fehr, J.</td>
<td>W</td>
<td>02:25 PM-03:30 PM</td>
<td>ED 258</td>
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<tr>
<td>22412</td>
<td>Martinez, S.</td>
<td>T</td>
<td>05:10 PM-06:15 PM</td>
<td>ED 258</td>
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<tr>
<td>22491</td>
<td>Huver, J.</td>
<td>F</td>
<td>07:15 AM-08:20 AM</td>
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<td>Huver, J.</td>
<td>F</td>
<td>08:30 AM-12:00 PM</td>
<td>ED 258</td>
<td></td>
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</table>

### Emer Mgmt and Homeland Sec

**EMER 167 Practical Applications of Emergency Management**  
**3 Units**  
Strongly recommended: ENGL 099 if required by English placement or if required by English level.  
This course provides principles and techniques involved in developing an emergency management plan for a public or private sector organization. Explore the processes involved data gathering, hazard identification and vulnerability assessment, and plan development. Students will prepare a draft of an emergency plan for an organization of their choice.  
54 lecture hours.  

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<th>CRN</th>
<th>Instructor</th>
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</tr>
</thead>
<tbody>
<tr>
<td>21981</td>
<td>DeMonaco, J.</td>
<td>HRS-ARRG</td>
<td>08/21-12/12</td>
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<tr>
<td>21982</td>
<td>Mumford, M.</td>
<td>HRS-ARRG</td>
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</table>
ENGL 099  Introduction to Reading and Composition  5 Units

Prerequisite: ENGL 030 or ENGL 040 or ENGL 098 or READ 040 or placement at the ENGL 099 level as defined by the College.

An introduction to fundamental techniques of reading and writing including sentence structure, paragraph and essay composition, and use of literal and inferential comprehension for critical and analytical thinking, reading and writing at the college level. 90 lecture hours.

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
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<tr>
<td>21339</td>
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</tr>
<tr>
<td>21866</td>
<td>Lawrence, P.</td>
<td>MTWR</td>
<td>08:35 AM-09:45 AM</td>
<td>SS 165</td>
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<tr>
<td>22450</td>
<td>Cross, C.</td>
<td>MTWR</td>
<td>08:35 AM-09:45 AM</td>
<td>ED 201</td>
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</tr>
</tbody>
</table>

LEARNING COMMUNITIES CLASS: Requires enrollment in COUN 159 CRN 20355.

ENGL 101  Reading and Composition  3 Units

Prerequisite: Placement is based on multiple assessment measures or completion of ENGL 099 or ESL 100 with min. grade of C.

A college-level composition course emphasizing exposition, analysis, argument, and research techniques. Extensive writing practice based upon reading selections of culturally diverse fiction, non-fiction and verse. 54 lecture hours.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>22338</td>
<td>Leano, E.</td>
<td>TR</td>
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<td>LB 305</td>
<td>08/21-12/12</td>
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<tr>
<td>21545</td>
<td>Shearer, M.</td>
<td>MW</td>
<td>11:30 AM-12:55 PM</td>
<td>SB 100</td>
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</tr>
<tr>
<td>20611</td>
<td>Villeneuve, A.</td>
<td>TR</td>
<td>09:55 AM-11:20 AM</td>
<td>LB 308</td>
<td>08/21-12/12</td>
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<tr>
<td>21877</td>
<td>Mitchell Lambert, J.</td>
<td>FS</td>
<td>09:55 AM-11:20 AM</td>
<td>LB 304</td>
<td>08/21-12/12</td>
</tr>
<tr>
<td>20614</td>
<td>Curran, S.</td>
<td>FS</td>
<td>09:55 AM-11:20 AM</td>
<td>NB 100</td>
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<tr>
<td>20603</td>
<td>Olivas, S.</td>
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<td>20610</td>
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<td>MW</td>
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<tr>
<td>22474</td>
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<td>22473</td>
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<td>20606</td>
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<td>21543</td>
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<td>FS</td>
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<td>22129</td>
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<tr>
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<td>Dau, C.</td>
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<td>20612</td>
<td>Eiland, T.</td>
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<td>01:05 PM-02:30 PM</td>
<td>Li 120</td>
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LEARNING COMMUNITIES CLASS: Requires enrollment in SOC 201 CRN 20386.

DISTANCE EDUCATION CLASS - 1st 8 weeks session; must also enroll in 21532 ENGL 101.

DISTANCE EDUCATION CLASS - 2nd 8 weeks session; must enroll in 21542 ENGL 101.

DISTANCE EDUCATION CLASS - Fast Track Class. Requires enrollment in ENGL 101 CRN 21351.

LAST DAY TO ADD OR DROP CLASS - 1st 8 weeks session; must also enroll in 21532 ENGL 101; 2nd 8 weeks session.

DISTANCE EDUCATION CLASS - 1st 8 weeks session; must also enroll in 21532 ENGL 101.
<table>
<thead>
<tr>
<th>CRN</th>
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<td>20561</td>
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<td>TR</td>
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<td>ED 129</td>
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**ENGL 103 Composition and Critical Thinking**  3 Units
Prerequisite: ENGL 101 or ENGL 101H.
This course uses literature as a basis for the teaching of critical thinking and composition. The emphasis is upon the analysis of issues, problems, and situations represented in fiction, drama, and poetry, and on the development of effective written arguments in support of the analysis. Meets the IGETC critical thinking requirement. 54 lecture hours. CSU UC

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<th>CRN</th>
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<td>21327</td>
<td>Hogan, G.</td>
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<tr>
<td>20560</td>
<td>Henson, N.</td>
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<td>03:50 PM-05:15 PM</td>
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<td>22458</td>
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<tbody>
<tr>
<td>22029</td>
<td>Dougall, N.</td>
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**DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de**

**ENGL 210 Creative Writing I**  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Instruction and practice in various forms of creative expression such as the short story, the novel, poetry, drama, and/or screenplay. Critical evaluation of professional and student writing. 54 lecture hours. CSU UC

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<tr>
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<th>Days</th>
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<th>Room</th>
<th>D</th>
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<tbody>
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<td>NB 100</td>
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**ENGL 213 Horror Literature**  3 Units
Prerequisite: ENGL 101 or ENGL 101H.
An introduction to horror literature, this course is designed to give students an understanding of the application of literary analysis to horror literature. 54 lecture hours. CSU UC

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>22348</td>
<td>Elmond, T.</td>
<td>TR</td>
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**ENGL 216 American Latino Literature**  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
The study of American Latino literature emphasizing the development of literary expression within the Latino community specifically in the mediums of poetry, short stories, and novels. The course will explore literature within the context of the Latino culture and examine the impact the works have had on the Latino and literary community. 54 lecture hours. CSU UC

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>22444</td>
<td>Resto-Omeotl, L.</td>
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<tr>
<td>20567</td>
<td>Eisel, R.</td>
<td>M</td>
<td>07:00 PM-10:10 PM</td>
<td>LB 304</td>
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</table>

**ENGL 217 Introduction to English Literature I**  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Significant works of major British writers in historical perspective. First semester: Anglo-Saxon period through the eighteenth century with emphasis on Chaucer, Milton, Donne and Johnson. 54 lecture hours. CSU UC

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<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
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<tbody>
<tr>
<td>20564</td>
<td>Telesca, L.</td>
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</table>

**ENGL 271 Introduction to World Literature: Ancient - Early Modern**  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
English 271 is the study of world literature in translation from the ancient world through the early modern period. This course emphasizes the development of literary expression and explores literature within the context of the culture and time in which works were written. This course examines the relationship between historical events and literary works and the impact of works on their age and ensuing eras. 54 lecture hours. CSU UC

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>ENGL 291</td>
<td>Film as Literature</td>
<td>3</td>
<td>Strongly recommended: ENGL 101. Also, ENGL 099 if required by English placement or if required by English level.</td>
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<tr>
<td>ENGL 293</td>
<td>Children's Literature</td>
<td>3</td>
<td>Prerequisite: ENGL 099 or English placement exam eligibility for ENGL 101. This course is designed to give the student a knowledge and an appreciation of children's books, both fiction and non-fiction. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of writing and illustration of award-winning books and selected classics.</td>
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<tr>
<td>ENGL 293H</td>
<td>Children's Literature - Honors</td>
<td>3</td>
<td>Prerequisites: ENGL 101. Student must be eligible for the Citrus College Honors Program or obtain a recommendation from an Honors instructor. Strongly recommended: ENGL 103. This honors course is designed to give the student a knowledge and an appreciation of children's books, both fiction and non-fiction. Critical analysis of such works from various perspectives is exemplified through research and written analysis. Special emphasis is given to the quality of writing and illustration of award-winning books and selected classics.</td>
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<tr>
<td>ENGL 294</td>
<td>Introduction to Shakespeare</td>
<td>3</td>
<td>Strongly recommended: ENGL 099 if required by English placement or if required by English level. An introduction to the works of William Shakespeare including representative tragedies, comedies and history plays. The course is designed to give students an understanding of the timelessness of Shakespeare's work. 54 lecture hours.</td>
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<tr>
<td>ENGL 298</td>
<td>Literature of the Bible</td>
<td>3</td>
<td>Strongly recommended: ENGL 099 if required by English placement or if required by English level. Reading and discussion of selected books from English translations of the Old and New Testaments. Emphasis is on the religious, social, political ideas, literary qualities, and textual problems. 54 lecture hours.</td>
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<td></td>
<td>English As A Second Language</td>
<td>3</td>
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<tr>
<td>ESL 020</td>
<td>English Language Skills II</td>
<td>3</td>
<td>Prerequisite: Placement is based on multiple assessment measures. A writing course for high-beginning English language students. Emphasis on production and comprehension of simple phrases, basic sentence construction, introductory paragraph writing skills and basic vocabulary. One of three core courses in ESL Level 2. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 54 lecture hours.</td>
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<tr>
<td>ESL 024</td>
<td>Reading/Vocabulary II</td>
<td>2</td>
<td>Prerequisite: Placement is based on multiple assessment measures. A reading and vocabulary course for low-intermediate ESL students. The course is designed to help students expand their vocabulary through oral and written practice and improve their reading comprehension. One of three core courses in ESL Level 2. NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.</td>
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<tr>
<td>ESL 026</td>
<td>Grammar Fundamentals II</td>
<td>2</td>
<td>Prerequisite: Placement is based on multiple assessment measures. A course for low-intermediate ESL students seeking to improve their grammatical accuracy in writing and speaking. Intensive review and practice of verb tenses, noun forms, adjectives, adverbs and modals, in a communicative context. One of three core courses in ESL Level 2. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.</td>
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<tr>
<td>ESL 030</td>
<td>English Language Skills III</td>
<td>3</td>
<td>Prerequisite: ESL 020 or placement in ESL Level 3 on the Accuplacer assessment test. A writing course for low-intermediate English language students. Emphasis on production and comprehension of longer phrases, compound and complex sentence construction, low- intermediate paragraph writing skills and vocabulary. One of three core courses in ESL Level 3. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 54 lecture hours.</td>
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<tr>
<td>ESL 034</td>
<td>Reading/Vocabulary III</td>
<td>2</td>
<td>Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 024. A reading and vocabulary course for intermediate ESL students. The course is designed to help students further expand vocabulary and reading skills. Emphasis is on building vocabulary through oral and written practice and improving reading comprehension. One of three core courses in ESL Level 3. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.</td>
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<tr>
<td>ESL 036</td>
<td>Grammar Fundamentals III</td>
<td>2</td>
<td>Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 026. A course for low-intermediate ESL students seeking to improve their grammatical accuracy in written English. Intensive review and practice of meaning and use of syntactic structures such as verb tense, modals, noun and adjective forms, questions and negatives, passive voice, adverbs, and articles. One of three core courses in ESL Level 3. NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.</td>
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</table>
ESL 040  English Language Skills IV  3 Units
Prerequisite: ESL 030 or placement in ESL Level 4 on the Accuplacer assessment test.
This course prepares high-intermediate ESL students for ESL 100. It includes grammar, vocabulary, usage, and the writing skills of sentence and paragraph development. It also presents essay development and writing. One of three core courses in ESL Level 4. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 54 lecture hours, 9 lab hours.
20655 Murakami, K. MTWR 01:00 PM-02:35 PM ED 247 08/21-10/15
Murakami, K. F 11:00 AM-11:50 AM ED 224 08/21-10/15
First Eight Weeks; Requires enrollment in ESL 100 CRN 21483 second eight weeks.
22487 Guebert, T. MTWR 01:00 PM-02:35 PM ED 235 08/21-10/15
Guebert, T. F 11:00 AM-11:50 AM ED 224 08/21-10/15
First Eight Weeks; Requires enrollment in ESL 100 CRN 22488 second eight weeks.
20822 Cruz Santoyo, M. MTWR 01:00 PM-02:35 PM ED 224 08/21-10/15
Cruz Santoyo, M. F 11:00 AM-11:50 AM ED 224 08/21-10/15
First Eight Weeks; Requires enrollment in ESL 100 CRN 20999 second eight weeks.
21314 Lay, N. MTWR 01:00 PM-02:55 PM LL 114 10/19-12/05
Lay, N. F 11:40 AM-01:10 PM ED 224 10/19-12/05
Second Eight Weeks; Requires enrollment in ESL 030 CRN 20646 first eight weeks; must pass with a C or better to continue in 040.
22498 Murakami, K. 03:40 PM-05:30 PM ED 247 10/19-12/05
Murakami, K. F 11:40 AM-01:10 PM ED 224 10/19-12/05
ESL 044  Reading Vocabulary IV  2 Units
Prerequisite: ESL 034 or placement in ESL Level 4 based on multiple assessment measures.
A reading and vocabulary course for high intermediate ESL students, designed to facilitate appropriate strategies for improving reading comprehension and developing vocabulary. Emphasis is on college-level vocabulary and reading skills. One of three core courses in ESL Level 4. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.
20658 Hanson Hegger, C. MTWR 09:55 AM-11:00 AM ED 224 08/21-10/13
First Eight Weeks
21891 Danon, A. MTWR 09:55 AM-11:00 AM HH 756 08/21-10/13
First eight weeks
20657 Guebert, T. MTWR 09:55 AM-11:00 AM ED 235 10/19-12/05
First Eight Weeks; Requires enrollment in ESL 034 CRN 20648 first eight weeks; must pass with a C or better to continue in 044.
ESL 046  Grammar Review I  2 Units
Prerequisite: ESL 036 or placement is based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL Level 4 core courses. A course for high-intermediate ESL students seeking to improve their grammatical accuracy in writing and speaking. Further review and practice of complex syntactic structures such as verb forms, tag questions, conditional statements, reported speech, nominalized verbs, and subordinate clauses. Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 044.
22448 Guebert, T. MTWR 01:00 PM-03:30 PM ED 224 10/19-12/05
Second Eight Weeks; Requires enrollment in ESL 46 CRN 20663 first eight weeks; must pass with a C or better to continue in 056.
21892 Lam, W. MTWR 11:30 AM-12:40 PM ED 224 10/19-12/05
Second eight weeks; Requires enrollment in ESL 054 CRN 21892 and passing the class with a C or better to continue in 054.
ESL 054  Bridge to College Reading  2 Units
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 044.
A reading and vocabulary course for advanced ESL students designed to improve their skills in the reading and analysis of academic text. Students will develop reading comprehension and study strategies in preparation for college-level coursework.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours.
22453 Lam, W. MTWR 09:55 AM-11:00 AM ED 247 08/21-10/13
Fast Track Learning Communities Class. Requires enrollment in ESL 053 CRN 20661 second 8 weeks; must pass with a C or better to continue in 054.
20678 Cross, C. MTWR 09:55 AM-11:00 AM ED 201 10/21-12/13
LEARNING COMMUNITIES FAST TRACK CLASS. Requires enrollment in first session ESL 054 #22453 and passing the class with a C or better to continue in the ESL 053 class.
ESL 056  Grammar Review II  2 Units
Prerequisite: ESL 046.
Strongly recommended: For students enrolled in ESL level 5 core courses. A course for advanced ESL students seeking to improve their grammatical accuracy in writing and speaking. Further review and practice of complex syntactic structures such as verb forms, tag questions, conditional statements, reported speech, modal and phrasal verbs, and subordinate clauses.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 36 lecture hours, 9 lab hours.
20660 Guebert, T. MTWR 11:30 AM-12:40 PM ED 235 10/19-12/05
Second Eight Weeks; Requires enrollment in ESL 046 CRN 20663 first eight weeks; must pass with a C or better to continue in 056.
21892 Lam, W. MTWR 11:30 AM-12:40 PM ED 224 10/19-12/05
Second eight weeks; Requires enrollment in ESL 046 CRN 21892 first eight weeks; must pass with a C or better to continue in 056.
ESL 100  Fundamentals of Composition  4 Units
Prerequisite: ESL 040 or placement in ESL level 5 on the Accuplacer assessment test.
This course prepares high-intermediate and advanced ESL students for college-level writing. It provides a review of English fundamentals and practice in critical thinking, paragraph development and essay writing with an emphasis on exposition. Continued practice in special writing problems common to second language learners. 72 lecture hours.
20702 Cross, C. MTWR 01:05 PM-03:15 PM ED 201 08/21-10/15
First eight weeks; Requires enrollment in English 101 CRN 22415 second eight weeks.
22132 Chang, B. MTWR 01:05 PM-03:10 PM HH 756 08/21-10/15
First eight weeks; Requires enrollment in English 101 CRN 22451.
20999 Cruz Santoyo, M. MTWR 01:05 PM-03:30 PM ED 224 10/19-12/05
Second Eight weeks; Requires enrollment in ESL 040 CRN 20822 first eight weeks; must pass with a C or better to continue in 100.
21843 Murakami, K. MTWR 01:05 PM-03:30 PM ED 235 10/19-12/05
Second Eight weeks; Requires enrollment in ESL 040 CRN 20655 first eight weeks; must pass with a C or better to continue in 100.
22488 Guebert, T. MTWR 01:05 PM-03:30 PM ED 247 10/19-12/05
Second Eight Weeks; Requires enrollment in ESL 040 CRN 22487 first eight weeks.
ESL 101  Reading and Composition  3 Units
Prerequisite: ESL 100 or placement in ESL Level 6 based on multiple assessment measures.
An advanced composition and reading course for ESL students. Instruction and practice in critical reading, expository writing and techniques for researching, documenting and writing a research paper. The course content parallels ENGL 101, differing in that the reading is non-fiction. 48 lecture hours, CSU UC
22133 Lay, N. MW 03:05 PM-04:30 PM LL 114 08/21-12/12
Ethnic Studies
<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHN 101</td>
<td>Introduction to Ethnic Studies</td>
<td>3 Units</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>21248</td>
<td>Guiones, N.</td>
<td>TR</td>
<td>01:00 PM-02:30 PM</td>
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<td>08/21-12/12</td>
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<tr>
<td>21290</td>
<td>Lefebvre, C.</td>
<td>TR</td>
<td>07:00 PM-10:10 PM</td>
<td>LB 102</td>
<td>08/21-12/12</td>
</tr>
</tbody>
</table>

**ETHN 116 Introduction to Chicano/Latino Studies**

This course is an introductory survey of Chicano/Latino people in the United States; examining race, ethnicity, gender and sexuality, social class, history, politics, institutional discrimination, culture, migration and globalization, literature, and the arts. 54 lecture hours. CSU UC

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>21249</td>
<td>Guiones, N.</td>
<td>W</td>
<td>07:00 PM-10:10 PM</td>
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<td>08/21-12/12</td>
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**Forestry**

<table>
<thead>
<tr>
<th>FOR 101</th>
<th>Introduction to Forestry</th>
<th>3 Units</th>
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</thead>
<tbody>
<tr>
<td>20352</td>
<td>Goodman, R.</td>
<td>R</td>
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</tbody>
</table>

**FOR 102 Introduction to Forest Ecology**

This intermediate level course is a study of the German language and culture. Strongly recommended: ENGL 099 if required by English placement or if required by English level.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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</thead>
<tbody>
<tr>
<td>22277</td>
<td>Goodman, R.</td>
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<td>07:00 PM-10:10 PM</td>
<td>LH 103</td>
<td>08/21-12/12</td>
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</tbody>
</table>

**FOR 105 Wildland Fire Management**

A lecture course examining the forest as a biological community, through which sustainability, biodiversity, ecosystem health and integrity, old growth, climate change, forest fires, and clear cutting are evaluated. 54 lecture hours. CSU UC

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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</thead>
<tbody>
<tr>
<td>20368</td>
<td>Goodman, R.</td>
<td>T</td>
<td>08:10 AM-11:20 AM</td>
<td>PC 314</td>
<td>08/21-12/12</td>
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</table>

**French**

<table>
<thead>
<tr>
<th>FREN 101</th>
<th>French I</th>
<th>5 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21989</td>
<td>Lefebvre, C.</td>
<td>TR</td>
</tr>
<tr>
<td>22328</td>
<td>Sherif, J.</td>
<td>MW</td>
</tr>
<tr>
<td>21990</td>
<td>Sherif, J.</td>
<td>MW</td>
</tr>
</tbody>
</table>

**FREN 102 French II**

Prerequisite: FREN 101 or two years of high school French. A further study of the elementary French grammar and vocabulary which develops understanding, speaking, reading, and writing skills. Includes additional study of French culture. 90 lecture hours. CSU UC

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<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>22091</td>
<td>Lefebvre, C.</td>
<td>TR</td>
<td>04:00 PM-06:30 PM</td>
<td>NB 100</td>
<td>08/21-12/12</td>
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**Geography - Physical**

<table>
<thead>
<tr>
<th>GEOG 118</th>
<th>Physical Geography</th>
<th>3 Units</th>
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</table>

**German**

<table>
<thead>
<tr>
<th>GER 101</th>
<th>German I</th>
<th>5 Units</th>
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</thead>
<tbody>
<tr>
<td>22200</td>
<td>Woolford, R.</td>
<td>MW</td>
</tr>
<tr>
<td>22201</td>
<td>Woolford, R.</td>
<td>HRS-ARRG</td>
</tr>
</tbody>
</table>

**GER 102 German II**

This intermediate level course is a study of the German language and culture. Strongly recommended: ENGL 099 if required by English placement or if required by English level.

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<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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<tr>
<td>21995</td>
<td>Wilson, K.</td>
<td>MW</td>
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<td>P1 103</td>
<td>08/21-12/12</td>
</tr>
<tr>
<td>21994</td>
<td>Wilson, K.</td>
<td>TR</td>
<td>07:15 AM-09:45 AM</td>
<td>P1 103</td>
<td>08/21-12/12</td>
</tr>
</tbody>
</table>

**GER 201 German III**

A course in elementary German grammar, vocabulary, and pronunciation which focuses on understanding, speaking, reading, and writing simple German and serves as an introduction to the geography, history, and culture of the German speaking world. 90 lecture hours. CSU UC

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>21698</td>
<td>Daves-Schneider, L.</td>
<td>TR</td>
<td>07:40 PM-10:10 PM</td>
<td>TC 127</td>
<td>08/21-12/12</td>
</tr>
</tbody>
</table>

**GER 202 German IV**

A course emphasizing the development of effective skills for reading, understanding, and interpreting more advanced readings in German literature and culture. Extensive practice in oral and written expression at the intermediate-high level is provided. 90 lecture hours. CSU UC

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>21700</td>
<td>Daves-Schneider, L.</td>
<td>TR</td>
<td>05:00 PM-07:30 PM</td>
<td>TC 127</td>
<td>08/21-12/12</td>
</tr>
</tbody>
</table>

**Health Occupations**

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 26
HEAL 100  Emergency Medical Services Career Preparation  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

Health Occupations 100 is designed to provide the student with the knowledge and skills necessary to begin an entry-level career in Emergency Medical Services (EMS) and other allied health-related fields of patient care. This course provides beginning concepts of preparatory sciences directly related to the care of sick and injured persons. It also covers the basic knowledge and skills necessary for American Heart Association (AHA) cardiopulmonary resuscitation (CPR) certification. Successful completion of this course is required for enrollment into the Emergency Medical Technician Basic Program.

Material fee. 36 lecture hours, 54 lab hours.

20498  Rickman, T.  R  04:00 PM-06:05 PM  TC 230  08/21-12/12
20501  Hadsell, C.  R  06:15 PM-09:20 PM  TC 230  08/21-12/12

Course does not have waitlist.

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

20118  Waddington, B.  MW  01:05 PM-02:30 PM  ED 129  08/21-12/12

HEAL 161  Emergency Medical Technician - Basic  7 Units

Prerequisite: HEAL 100 or concurrent enrollment.

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

The entry-level course in emergency training for those involved in Emergency Medical Services. 108 lecture hours, 54 lab hours.

22371  Hadsell, C.  M  08:00 AM-02:50 PM  TC 230  08/21-12/12
22372  Hadsell, C.  M  03:00 PM-06:25 PM  TC 230  08/21-12/12

Course does not have waitlist.

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

20816  Waddington, B.  HRS-ARRG  08/21-12/12

HIST 103  History of World Civilization up to 1500 C.E.  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

The course is a survey of emerging regional cultures and societies from the earliest civilizations to 1500. Consideration will be given to comparative and integrative analysis of their contributions to the fabric of world civilization. Particular focus will be given to cultural evolutionary parallels and the diffusion of ideas through migration and trade on a global scale. College level reading is strongly advised. 54 lecture hours. CSU UC

20168  McGarry, M.  MW  08:20 AM-09:45 AM  LB 301  08/21-12/12
20171  Lewis, D.  TR  09:55 AM-11:20 AM  LH 103  08/21-12/12
22202  Lewis, D.  TR  05:25 PM-06:50 PM  LB 303  08/21-12/12
20176  Lewis, D.  T  07:00 PM-10:10 PM  LB 306  08/21-12/12
20175  Lubisch, S.  HRS-ARRG  08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

Mandatory on-campus orientation Thursday, August 27, 2015, from 4:30 - 5:30 p.m. in LH 103.

Students who fail to attend the orientation will be dropped from the course.

20871  Lubisch, S.  HRS-ARRG  08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

First Eight Weeks

Mandatory on-campus orientation Tuesday, August 25, 2015, from 4:30 - 5:30 p.m. in LH 103.

Students who fail to attend the orientation will be dropped from the course.

HIST 103H  History of World Civilization up to 1500 C.E./Honors  3 Units

Students who fail to attend the orientation will be dropped from the course.

20118  Waddington, B.  MW  01:05 PM-02:30 PM  ED 129  08/21-12/12

HIST 104  History of World Civilization since 1500  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

The course is a survey of emerging regional cultures and societies from the earliest civilizations to 1500. Consideration will be given to comparative and integrative analysis of their contributions to the fabric of world civilization. Particular focus will be given to cultural evolutionary parallels and the diffusion of ideas through migration and trade on a global scale. Students are expected to work and participate at an honors level which includes strong critical thinking skills, thorough analysis of historical readings, presentation and leadership skills demonstrated through class participation/presentation, and service learning in the community. 54 lecture hours. CSU UC

21148  Lubisch, S.  MW  11:30 AM-12:55 PM  ED 129  08/21-12/12

HIST 107  History of the United States before 1877  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A survey of the political, economic and social development of the United States to 1876. This course meets the State requirement for American history and is designed for college transfer students. 54 lecture hours. CSU UC

22203  Zeman, W.  MW  08:20 AM-09:45 AM  LB 102  08/21-12/12
20202  Ritacca, E.  MW  08:20 AM-09:45 AM  LB 104  08/21-12/12
20204  Ritacca, E.  TR  08:20 AM-09:45 AM  LB 103  08/21-12/12
21909  Ritacca, E.  TR  01:05 PM-02:30 PM  LB 102  08/21-12/12
22204  Bidwell, J.  TR  05:25 PM-06:50 PM  LB 306  08/21-12/12
20220  Woolsey, R.  M  03:40 PM-05:05 PM  LB 303  08/21-12/12
20155  Woolsey, R.  M  07:00 PM-08:25 PM  LB 303  08/21-12/12
21910  Ritacca, E.  W  07:00 PM-10:10 PM  LB 308  08/21-12/12
20869  Kom, D.  R  03:40 PM-06:50 PM  TE 153  08/21-12/12
22205  Amaya, H.  R  07:00 PM-10:10 PM  LB 103  08/21-12/12
20231  Solheim, B.  HRS-ARRG  08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

HIST 107H  History of the United States before 1877 - Honors  3 Units

Prerequisite: Meet Honors Program entrance requirements that include eligibility for ENGL 101 or completion of equivalent.

A survey of political, economic and social development of North America and the United States to 1877 along with a survey of American historiography and the various interpretations of these developments. The course meets the state requirement for American history and is designed for college transfer students. 54 lecture hours. CSU UC

20118  Waddington, B.  MW  01:05 PM-02:30 PM  ED 129  08/21-12/12
HIST 108  History of the United States since 1877  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A survey of political, economic, diplomatic, and social development of the U.S. from 1876 to the present. This course meets the State requirement for American history and is designed for college transfer students. 54 lecture hours. CSU UC

CRN  Instructor              Days   Time                       Room    D CRN  Instructor              Days   Time                        Room    D
20339  Solheim, B.            MW  08:20 AM-09:45 AM            LB 302   08/21-12/12
20252  Solheim, B.            MW  01:05 PM-02:30 PM            LB 104   08/21-12/12
20248  Culp, J.              TR  08:20 AM-09:45 AM            LB 302   08/21-12/12
20244  Solheim, B.            TR  09:55 AM-11:20 AM            LB 301   08/21-12/12
20247  Solheim, B.            TR  11:30 AM-12:55 PM            LB 303   08/21-12/12
20266  Ritacca, E.            TR  11:30 AM-12:55 PM            LB 306   08/21-12/12
20250  Zeman, W.             TR  03:50 PM-05:15 PM            LB 310   08/21-12/12
20263  Amaya, H.             TR  05:25 PM-06:50 PM            LB 302   08/21-12/12
21934  Matthews, L.          FS  08:10 AM-11:20 AM            LB 102   08/21-12/12
20255  Harris, C.             F  03:40 PM-05:15 PM            LB 310   08/21-12/12
20245  Solheim, B.            TR  05:25 PM-06:50 PM            LB 105   08/21-12/12
21583  Miller, R.            TR  08:20 AM-09:45 AM            LB 101   08/21-12/12
20252  Solheim, B.            MW  01:05 PM-02:30 PM            LB 104   08/21-12/12
20248  Culp, J.              TR  08:20 AM-09:45 AM            LB 302   08/21-12/12
20244  Solheim, B.            TR  09:55 AM-11:20 AM            LB 301   08/21-12/12
20247  Solheim, B.            TR  11:30 AM-12:55 PM            LB 303   08/21-12/12
20266  Ritacca, E.            TR  11:30 AM-12:55 PM            LB 306   08/21-12/12
20250  Zeman, W.             TR  03:50 PM-05:15 PM            LB 310   08/21-12/12
20263  Amaya, H.             TR  05:25 PM-06:50 PM            LB 302   08/21-12/12
21934  Matthews, L.          FS  08:10 AM-11:20 AM            LB 102   08/21-12/12
20255  Harris, C.             F  03:40 PM-05:15 PM            LB 310   08/21-12/12
20245  Solheim, B.            TR  05:25 PM-06:50 PM            LB 105   08/21-12/12
20266  Ritacca, E.            TR  11:30 AM-12:55 PM            LB 306   08/21-12/12
20250  Zeman, W.             TR  03:50 PM-05:15 PM            LB 310   08/21-12/12
20263  Amaya, H.             TR  05:25 PM-06:50 PM            LB 302   08/21-12/12
21934  Matthews, L.          FS  08:10 AM-11:20 AM            LB 102   08/21-12/12
20255  Harris, C.             F  03:40 PM-05:15 PM            LB 310   08/21-12/12
20245  Solheim, B.            TR  05:25 PM-06:50 PM            LB 105   08/21-12/12

HIST 109  The World in conflict - The 20th Century, a History  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

A critical approach to the history of the 20th Century through major events and issues. 54 lecture hours. CSU UC

CRN  Instructor              Days   Time                       Room    D CRN  Instructor              Days   Time                        Room    D
21560  McGarry, M.           MW  05:25 PM-06:50 PM            LB 104   08/21-12/12
20151  Liskey, R. T          MW  11:30 AM-12:55 PM            LB 102   08/21-12/12

HIST 111  History of the African-Americans to 1876  3 Units

Strongly recommended: ENGL 099 if required by English placement or required by English level.

An exploration of the cultural development and role of the African-American in the history of the United States from the African origins to the end of Reconstruction (1876). 54 lecture hours. CSU UC

CRN  Instructor              Days   Time                       Room    D CRN  Instructor              Days   Time                        Room    D
22206  Page, R.              M  07:00 PM-10:10 PM            LB 107   08/21-12/12
22207  Zarate, E.            HRS-ARRG  08/21-12/12

HIST 130  Latin American Culture and Civilization  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

Latin American Culture and Civilization is a survey course, providing an interdisciplinary approach to understanding the culture and history of Latin America. The course critically analyzes historical and contemporary social traditions and institutions in order to reach an understanding of modern day Latin America. 54 lecture hours. CSU UC

CRN  Instructor              Days   Time                       Room    D CRN  Instructor              Days   Time                        Room    D
21380  McGarry, M.           MW  01:05 PM-02:30 PM            LB 302   08/21-12/12
20140  Lubisich, S.          MW  09:55 AM-11:20 AM            LB 301   08/21-12/12
21900  Bobo, M.              MW  01:05 PM-02:30 PM            LB 102   08/21-12/12
21936  DeAngelis, G.         FS  08:20 AM-09:45 AM            LB 104   08/21-12/12
20151  Liskey, R.            T  07:00 PM-10:10 PM            LB 104   08/21-12/12
22208  Vaughan, J.           R  07:00 PM-10:10 PM            LB 104   08/21-12/12

HIST 132  History of Modern Latin America  3 Units

Strongly recommended: ENGL 099 if required by English placement or if required by English level.

The course is a survey of the social, economic and political history of Latin America from independence to the present. The legacy of colonialism will be considered as special emphasis is given to the development of cultural, political, and economic institutions. The course will give attention to the relationships between Latin America and the United States foreign policy. 54 lecture hours. CSU UC

CRN  Instructor              Days   Time                       Room    D CRN  Instructor              Days   Time                        Room    D
22207  Zarate, E.            HRS-ARRG  08/21-12/12

HIST 139  History of California  3 Units

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 28
Information Technology

IT 104 PC Hardware and Maintenance 4 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course will be of interest to computer technicians, field services and help desk support personnel, as well as, individuals interested in enhancing their technical skills and knowledge of the PC system. This course will involve hands-on experience using a computer and performing tasks that individuals may perform in a workplace. The course is designed to be a comprehensive introduction to the world of computers, covering topics such as computer hardware and software, troubleshooting, and networking, with an emphasis on practical application.

Kinesiology - Activities

KIN 101 Badminton 1 Units
Development of skills necessary to participate in a game of badminton.
Course will improve skills through repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU UC
22090 Dinneen, G. M 07:45 AM-08:55 AM PE 102 08/21-11/28
21032 Dinneen, G. T 08:00 AM-09:10 AM PE 102 08/21-11/24
Dinneen, G. R 08:00 AM-09:10 AM PE 102 08/21-11/24

KIN 116 Yoga 1 Units
This course focuses on the development of the body/mind through the use of specific Yoga postures, breathing techniques, stretches, mental exercises, and relaxation exercises. The goals are to instruct students to achieve greater concentration, self-discipline, and improved physical/emotional health through instruction and practice of these skills. 18 lecture hours, 18 lab hours. CSU UC
21498 Okubo, E. TR 11:30 AM-02:00 PM SB 100 08/21-12/12

Japanese

JPN 101 Japanese I 5 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course is a comprehensive introduction to the Japanese language, covering the basics of the writing system, grammar, and vocabulary. Students will learn to read and write hiragana and katakana, and will practice conversational skills through role-plays and conversations. The course will also cover essential cultural knowledge, such as basic manners and greetings, and will provide an introduction to Japanese civilization and history. 54 lecture hours. CSU UC
22004 Okubo, E. TR 02:30 PM-05:00 PM SB 100 08/21-12/12
20741 Brown, Y. MW 03:50 PM-06:20 PM ED 205 08/21-12/12
21498 Okubo, E. TR 11:30 AM-02:00 PM SB 100 08/21-12/12

Kinesiology

KIN 100 Introduction to Kinesiology 3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
This course introduces the interdisciplinary approach to the study of human movement. In the course, students will explore an overview of the sub-disciplines of the field and their significance in daily life. 54 lecture hours. CSU UC
21840 Shaw, N. MW 09:55 AM-11:20 AM PE 138 08/21-12/12

Kinesiology - Activities

KIN 101 Badminton 1 Units
Development of skills necessary to participate in a game of badminton.
Course will improve skills through repetition and supervised instruction. 18 lecture hours, 18 lab hours. CSU UC
22090 Dinneen, G. M 07:45 AM-08:55 AM PE 102 08/21-11/28
21032 Dinneen, G. T 08:00 AM-09:10 AM PE 102 08/21-11/24
Dinneen, G. R 08:00 AM-09:10 AM PE 102 08/21-11/24

KIN 116 Yoga 1 Units
This course focuses on the development of the body/mind through the use of specific Yoga postures, breathing techniques, stretches, mental exercises, and relaxation exercises. The goals are to instruct students to achieve greater concentration, self-discipline, and improved physical/emotional health through instruction and practice of these skills. 18 lecture hours, 18 lab hours. CSU UC
21498 Okubo, E. TR 11:30 AM-02:00 PM SB 100 08/21-12/12

Japanese

JPN 101 Japanese I 5 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
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21498 Okubo, E. TR 11:30 AM-02:00 PM SB 100 08/21-12/12
## Kinesiology - Aquatics

### KIN 142 Swimming - Beginning 1 Units
- **Strongly recommended:** ENGL 099 if required by English placement or if required by English level.
- This course provides basic instruction and practice in the fundamental elements of swimming including beginning diving and water safety instruction. The class is designed to develop proficiency in the basic swim strokes. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 21061
  - **Gunstream, M.**
    - **M:** 06:25 PM-07:35 PM
    - **Room:** AP 109
    - **Time:** 08/21-11/28

### KIN 150 Adapted Physical Education 1 Units
- **Prerequisite:** Physician's written diagnosis of physical disability and exercise limitations.
- Designed for the student with a physical disability who is unable to participate in regular physical education classes. A medical doctor's written prescription of exercise limitations is required. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 21569
  - **Hartman, S.**
    - **MW:** 11:10 AM-12:30 PM
    - **Room:** AP 110
    - **Time:** 08/21-12/12

## Kinesiology - Fitness

### KIN 145 Strength Training, Balance and Agility 1 Units
- **Strongly recommended:** ENGL 099 if required by English placement exam or if required by English level.
- Designed to introduce students to proprioceptive training. Proprioceptive training can improve balance, core strength, quickness, and agility and reduce the risk of injury. This type of training can benefit all movements performed in our daily life, not just those dealing with sports or athletic movements. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 22138
  - **Gomez, S.**
    - **T:** 08:40 AM-09:45 AM
    - **Room:** PE 101
    - **Time:** 08/21-11/26

### KIN 146 Water Exercise 1 Units
- Low impact water exercise class provides a better understanding of body movement while in the water. Designed to develop strength, flexibility, cardiovascular endurance, and coordination. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 22169
  - **Swatek, C.**
    - **M:** 04:00 PM-06:05 PM
    - **Room:** AQ POOL
    - **Time:** 08/21-10/24

### KIN 147 Swimming for Cardiovascular Improvement 1 Units
- **Strongly recommended:** Successful completion of pretest assessment of swimming strokes. Also, ENGL 099 if required by English placement exam or if required by English level.
- This course will emphasize swimming for health and physical fitness. The class is designed to decrease the risk of coronary heart disorders by increasing heart efficiency, vital lung capacity, and the knowledge of each through the use of aerobic and anaerobic conditioning. Participating adults and others seeking a fitness program may expect to improve their overall fitness level through aquatic training. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 22167
  - **Wurst, C.**
    - **T:** 12:10 PM-01:20 PM
    - **Room:** AQ POOL
    - **Time:** 08/21-11/28

### KIN 151 Body Conditioning 1 Units
- **Strongly recommended:** ENGL 099 if required by English placement exam or if required by English level.
- This course will include general conditioning exercises, aerobic exercises, and exercises to develop flexibility and strength. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 21054
  - **Gunstream, M.**
    - **MW:** 09:30 AM-10:40 AM
    - **Room:** PE 101
    - **Time:** 10/19-12/05

### KIN 152 Walking/Jogging 1 Units
- **Strongly recommended:** ENGL 099 if required by English placement exam or if required by English level.
- A walking/jogging program that consists of activity alternately at a slow to moderate pace. This program is designed to build cardiorespiratory stamina and endurance, attack excessive weight, relieve psychological tension, and enhance one's sense of well-being. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 21049
  - **Gomez, S.**
    - **T:** 07:30 AM-08:35 AM
    - **Room:** PE 101
    - **Time:** 08/21-11/28

## KIN 159 Cardiovascular Training 1 Units
- This course will offer a non-competitive, environment in which the student can develop a total fitness program. This program will promote areas of muscular strength, flexibility, and cardiovascular endurance. A philosophy of "Fitness for Life" will be the ultimate objective. Every student will be encouraged to regulate his/her program so that it will be enjoyable on a long term basis. 18 lecture hours, 18 lab hours. CSU UC
- **Crn:** 21055
  - **Gunstream, M.**
    - **M:** 08:00 AM-09:10 AM
    - **Room:** PE 101
    - **Time:** 08/21-11/28

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Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 30
### Kinesiology - Pro Prep

**KIN 169 Introduction to Coaching**  
**3 Units**

- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- This course explains the mechanics of a proper exercise and diet program through lecture and exercise activities. Various forms of exercise will be presented for trial by each student to develop a personal fitness prescription.  
  54 lecture hours. CSU UC

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<th>CRN</th>
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<td>21037</td>
<td>Brawner, M.</td>
<td>W</td>
<td>02:45 PM-04:00 PM</td>
<td>AQ 100</td>
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**KIN 170 Fitness for Life**  
**3 Units**

- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- This course is designed to explore the major areas of health that will have an effect on the well-being of the individual now and in the future.  
  54 lecture hours. CSU UC

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**KIN 171 Health Science**  
**3 Units**

- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- This course is designed to explore the major areas of health that will have an effect on the well-being of the individual now and in the future.  
  54 lecture hours. CSU UC

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<td>03:00 PM-06:10 PM</td>
<td>AQ 100</td>
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**KIN 172 Health Science - Honors**  
**3 Units**

- Requisite: Student must be eligible for the Citrus College Honors Program or obtain a recommendation from an Honors instructor.
- Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.
- This course is designed to explore the major areas of health that will have an effect on the well-being of the individual now and in the future.  
  54 lecture hours. CSU UC

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**KIN 173 Nutrition for Fitness**  
**3 Units**

- This course is designed to provide knowledge about the basic principles of nutrition and to study the role nutrition plays in health promotion.  
  54 lecture hours. CSU UC

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<td>Tracey, T.</td>
<td>MTWRF</td>
<td>03:15 PM-05:05 PM</td>
<td>PE ST</td>
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</table>

Recommended for student athletes: Women's Volleyball
Course does not have Waitlist.

KINC 210 Women's Varsity Soccer

3 Units

Strongly recommended: Advanced soccer skills to participate in a competitive collegiate experience.

Intercollegiate competition in women's varsity soccer. This course may be taken four times. 162 lab hours. CSU UC

21616 Moore, L. MTWRF 11:30 AM-01:20 PM PE 102

Recommended for student athletes. Women's Varsity Soccer
Course does not have Waitlist.

KINC 211 Women's Varsity Volleyball

3 Units

Strongly recommended: Advanced volleyball skills to participate in a competitive collegiate experience.

Intercollegiate competition in women's varsity volleyball. This course may be taken four times. 162 lab hours. CSU UC

21615 Jung, S. MTWRF 04:00 PM-06:50 PM PE 102

Recommended for student athletes. Women's Volleyball
Course does not have Waitlist.

KINC 213 Women's Varsity Basketball

2 Units

Strongly recommended: Advanced basketball skills to participate in a competitive collegiate experience.

Intercollegiate competition in women's varsity basketball. This course may be taken four times. 108 lab hours. CSU UC

21611 Moore, L. MTWRF 09:00 AM-11:20 AM PE 102

Recommended for student athletes. Women's Varsity Basketball
Course does not have Waitlist.

KINC 216 Varsity Cross Country

3 Units

Strongly recommended: Advanced cross country skills to participate in a competitive collegiate experience. Must be a collegiate varsity athlete/varsity college prospective athlete or with coach's permission.

Intercollegiate competition in varsity cross country. This course may be taken four times. 162 lab hours. CSU UC

21618 Longyear, A. MTWRF 07:00 AM-08:50 AM PE ST 08/21-12/12

Recommended for student athletes. Men's & Women's Cross Country
Course does not have Waitlist.

KINC 220 Men's Varsity Football

3 Units

Strongly recommended: Advanced football skills to participate in a competitive collegiate experience.

Intercollegiate competition in men's varsity football. This course may be taken four times. 162 lab hours. CSU UC

21619 Ponciano, R. MTWRF 03:15 PM-05:05 PM PE FP 08/21-12/12

Recommended for student athletes: Football
Course does not have Waitlist.

KINC 221 Men's Varsity Basketball

2 Units

Strongly recommended: Advanced basketball skills to participate in a competitive collegiate experience.

Varsity athletics. Involves intercollegiate competition for two units of credit. This course may be taken four times. 108 lab hours. CSU UC

21620 Johnson, P. MTWRF 01:30 PM-03:20 PM PE 102

Recommended for student athletes: Men's Basketball
Course does not have Waitlist.

KINC 227 Women's Varsity Golf

3 Units

Strongly recommended: Advanced golf skills to participate in a competitive collegiate experience.

Intercollegiate competition in women's varsity golf. This course may be taken four times. 162 lab hours. CSU UC

21621 Horton, J. MWF 03:30 PM-06:35 PM PE GI 08/21-12/12

Recommended for student athletes: Women's Golf
Course does not have Waitlist.
KINC 229  Men's Varsity Water Polo  3 Units
Strongly recommended: Advanced swimming skills to participate in a competitive collegiate experience.
Intercollegiate competition in men's varsity water polo. This course may be taken four times. 162 lab hours. CSU UC
21622 Clements, K. MTWR 04:00 PM-05:50 PM AQ POOL 08/21-12/12
Recommended for student athletes: Men's Water Polo
Course does not have Waitlist.

KINC 230  Women's Varsity Water Polo  3 Units
Strongly recommended: Advanced swimming skills to participate in a competitive collegiate experience.
Intercollegiate competition in women's varsity water polo. This course may be taken four times. 162 lab hours. CSU UC
21600 Paschall, M. MTWR 01:30 PM-03:20 PM AQ POOL 08/21-12/12
Recommended for student athletes: Women's Water Polo
Course does not have Waitlist.

KINC 231  Men's Varsity Soccer  3 Units
Strongly recommended: Advanced soccer skills to participate in a competitive collegiate experience.
Intercollegiate competition in men's varsity soccer. This course may be taken four times. 162 lab hours. CSU UC
21623 Bruce-Oliver, F. MTWR 05:15 PM-07:05 PM PE ST 08/21-12/12
Recommended for student athletes: Men's Soccer
Course does not have Waitlist.

LEAD 103  Foundations of Leadership  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A survey of the foundational theories and applications of leadership. Leadership is examined from the individual to its applications in the team and organizational settings. Emphasis is placed on the development of the student as a leader.
This course is required either as a corequisite or prerequisite to holding a leadership position in the campus' student government association. 54 lecture hours. CSU UC
21170 Estrada, V. M 07:00 PM-10:10 PM LB 103 08/21-12/12

Math

MATH 020  Arithmetic Fundamentals  1 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
The four basic operations of arithmetic on whole numbers, fractions, and decimals, with applications. Ratios, proportions, and percents with applications. This course will be offered on a Pass/No Pass basis only. 54 lab hours.
21852 Odrich, S. MW 09:55 AM-11:20 AM MA 127 08/21-12/12
21215 Odrich, S. MW 11:30 AM-12:55 PM MA 127 08/21-12/12
21212 Odrich, S. MW 01:05 PM-03:20 PM MA 127 08/21-12/12
21209 Odrich, S. MW 03:50 PM-05:15 PM MA 127 08/21-12/12
21211 Odrich, S. MW 07:00 PM-08:25 PM MA 127 08/21-12/12
22345 Hopkins, L. TR 08:20 AM-09:45 AM MA 127 08/21-12/12
21855 Odrich, S. TR 09:55 AM-11:20 AM MA 127 08/21-12/12
21216 Odrich, S. TR 11:30 AM-12:55 PM MA 127 08/21-12/12
21213 Odrich, S. TR 01:05 PM-03:20 PM MA 127 08/21-12/12
21214 Odrich, S. TR 03:30 PM-05:15 PM MA 127 08/21-12/12
21217 Odrich, S. TR 07:00 PM-08:25 PM MA 127 08/21-12/12

MATH 029  Pre-Algebra  4 Units
Prerequisite: MATH 020 or placement is based on multiple assessment measures.
This course is designed to prepare a student for Elementary Algebra. Topics include a review of arithmetic, a study of signed numbers, an introduction to fundamental algebraic concepts, solving equations, and solving applied problems. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 72 lecture hours.
21562 Low, J. MTWR 08:00 AM-09:10 AM MA 230 08/21-11/27
21559 Low, J. MTWR 09:25 AM-10:35 AM MA 230 08/21-11/27
21540 Dominguez, V. MTWR 10:00 AM-12:05 PM MA 223 08/21-10/17

MATH 030  Elementary Algebra  4 Units
Prerequisite: MATH 029 or placement is based on multiple assessment measures.
Fundamental operations with polynomials and rational expressions, products and factoring, linear and quadratic equations in one variable, inequalities, exponents, radicals, graphing linear equations, systems of equations, applications and introduction to functions. 90 lecture hours.
21427 Nguyen, T. MTWR 08:20 AM-09:30 AM LB 105 08/21-12/12
21415 Trad, M. MTWR 08:25 AM-09:35 AM MA 125 08/21-12/12
21418 Trad, M. MTWR 10:00 AM-11:10 AM MA 124 08/21-12/12
21420 Gong, C. MTWR 10:15 AM-11:25 AM MA 126 08/21-12/12
21430 Trad, M. MTWR 11:40 AM-12:50 PM MA 206 08/21-10/12
21422 Gong, C. MTWR 11:40 AM-12:50 PM MA 126 08/21-12/12
21424 Lei, L. MW 08:00 AM-10:30 AM MA 108 08/21-12/12
21586 Trujillo Aparicio, A. MW 02:30 PM-05:00 PM LB 208 08/21-12/12
22459 Stevenson, M. MW 02:40 PM-05:10 PM LB 105 08/21-12/12
21413 Paek, H. MW 01:50 PM-03:35 PM MA 125 08/21-12/12
21874 Niu, K. MW 01:50 PM-03:35 PM MA 207 08/21-12/12
22342 Choi, Y. MW 02:25 PM-04:55 PM PS 106 08/21-12/12
21426 Scott, C. MW 07:00 PM-09:30 PM LH 102 08/21-12/12
21411 Niu, K. TR 01:05 PM-03:35 PM PC 303 08/21-12/12
21425 Nguyenhhu, R. TR 01:05 PM-03:35 PM MA 109 08/21-12/12
21711 Kassab, M. MW 04:05 PM-06:35 PM MA 222 08/21-12/12
21416 Low, J. TR 01:10 PM-03:40 PM MA 222 08/21-12/12
21429 Martinez, J. TR 07:15 PM-09:45 PM HH 754 08/21-12/12
22310 Vo, P. FS 10:15 AM-12:45 AM MA 108 08/21-12/12
21402 Trad, M. TR 08:20 AM-10:10 AM LB 103 08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
Students required to take exams on campus.

MATH 032  Beginning and Intermediate Algebra I  4 Units
Prerequisite: MATH 029 or placement is based on multiple assessment measures.
Properties of real numbers and expressions; linear equations and inequalities in one and two variables; systems; proportion and variation; exponents; polynomials; factoring; graphs; functions; applications. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 90 lecture hours.
22034 Garcia, J. MTWR 08:00 AM-10:35 AM MA 222 08/21-10/17

Strongly Recommended For Veterans.
Fast Track Class - first eight weeks.
Requires enrollment in MATH 142 - CRN 22045, first eight weeks.
22036 Dominguez, V. MTWR 10:00 AM-12:50 PM MA 223 10/19-12/12
LEARNING COMMUNITIES CLASS: Requires enrollment in COUN 160 CRN 22355, ENGL 099 CRN 21146, and MATH 029 CRN 21540, first eight weeks.
22037 Gonzalez, R. MTWR 01:05 PM-03:40 PM MA 223 10/21-10/17
Fast Track Class - first eight weeks.
Requires enrollment in MATH 142 - CRN 22046, second eight weeks.
22109 Dominguez, V. MTWR 04:00 PM-06:10 PM PC 303 08/21-12/12

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<td>20645</td>
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<td>21890</td>
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**MATH 131 Plane Geometry**

4 Units

Prerequisite: MATH 030 or placement is based on multiple assessment measures.

A first course in geometry. Elementary logic, properties of geometric figures, parallel and perpendicular lines, ratio and proportion, congruence, area, and volume. 72 lecture hours.

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**MATH 142 Beginning and Intermediate Algebra II**

5 Units

Prerequisite: MATH 032.

Rational, Radical, Quadratic, Exponential and Logarithmic Expressions, Functions, and Equations; Complex Numbers; Inverse Functions; Conic Sections. NOTE: The precollegiate algebra sequence is MATH 029, 030, and 150 OR MATH 029, 032, and 142. THIS COURSE MAY NOT BE TAKEN CONCURRENTLY WITH EITHER MATH 148, 149 OR 150. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 142, 148, 149, AND 150. 90 lecture hours.

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**MATH 150 Intermediate Algebra**

5 Units

Prerequisite: MATH 030 or placement is based on multiple assessment measures.

Real number properties, first degree equations and inequalities, absolute value equations and inequalities, formulas, applications, exponents, polynomials, the binomial theorem, factoring, linear systems, functions, rational expressions, radicals, complex numbers, quadratic equations, conics, inverse functions, and exponential and logarithmic functions. 90 lecture hours. NOTE: THIS COURSE MAY NOT BE TAKEN CONCURRENTLY WITH EITHER MATH 148 or 149. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

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**MATH 151 Plane Trigonometry**

4 Units

Prerequisites: MATH 131 or high school Geometry, and MATH 142 or MATH 149 or MATH 150 or placement for algebra readiness is based on multiple assessment measures.

Functions, the trigonometric functions: their graphs and identities, laws of sines and cosines, solutions of triangles, trigonometric equations, inverse trigonometric functions, polar coordinates, DeMoivre's Theorem. 72 lecture hours.

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**MATH 162 Introductory Mathematical Analysis**

4 Units

Prerequisite: MATH 142 or MATH 149 or MATH 150 or placement is based on multiple assessment measures.

Concepts of function and limits: applied calculus emphasizing techniques of integration and differentiation with applications in science and life sciences, business administration, economics, and engineering technology. 72 lecture hours.

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**MATH 165 Introductory Statistics**

4 Units

Prerequisite: MATH 142 or MATH 149 or MATH 150 or placement is based on multiple assessment measures.

Introductory course to statistics and probability, descriptive analysis, and presentation of data, hypothesis testing, statistical inference, normal curve, chi square, and applications in diverse disciplines. 72 lecture hours.

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**MATH 168 Mathematics for Elementary Teachers I**

4 Units

Prerequisite: MATH 142 or MATH 149 or MATH 150 or placement is based on multiple assessment measures.

Course is designed for prospective elementary teachers. The course covers sets, logic, number systems, number theory and algebra functions. Techniques in instructional delivery explored. 72 lecture hours.

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This introduction to linear algebra course complements coursework in calculus and linear transformations. Selected applications of linear algebra are included. The abstract vector space, vector space and matrix theory are presented including properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Gaussian elimination, and matrix algebra. The course investigates the systems of linear equations. Solution techniques include row operations, and various properties of these systems. This course prepares students for the Preventative Maintenance Inspection (T8) ASE certification. 54 lecture hours, 126 lab hours. CSU

Prerequisite: MATH 191.

Students are strongly recommended to pursue MATH 030. Also, ENGL 099 if required by English placement exam or if required by English level. Intended for students seeking a career in the medium and heavy duty truck service and repair industry, this course covers essential maintenance theory, along with inspection procedures of the following systems: cooling systems, lubrication systems, powertrain systems, brakes, steering and suspension systems. This course prepares students for the Preventative Maintenance Inspection (T8) ASE certification. 54 lecture hours, 126 lab hours. CSU

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**MUSC 122** Jazz Ensemble I  
4 Units  
Prerequisite: Audition.  
An introduction to the study and performance of large jazz ensemble music. This course provides an opportunity to learn the techniques applicable to the large jazz ensemble performance. Public performance required. 36 lecture hours, 126 lab hours arranged. CSU UC  
21785 Desantis, M. MW 08:20 AM-09:45 AM 08/21-12/12 PA 192  

**MUSC 140** Jazz Improvisation I  
3 Units  
Prerequisite: Audition. Successful completion of MUSE 090 ad MUSE 070 will support audition success. This is a class for music majors and performing artists. Fundamental jazz harmonic theory, techniques, and practices of jazz improvisation in a variety of styles will be introduced and explored. 54 lecture hours, 18 lab hours. CSU UC  
21777 Hoehne, W. TR 08:20 AM-09:45 AM PA 154 08/21-12/12  
21778 Hoehne, W. R 07:20 AM-08:10 AM PA 154 08/21-12/12  

**MUSC 141** Jazz Improvisation II  
3 Units  
Prerequisite: MUSC 140 or Audition. This is a class for music majors and performing artists. Intermediate jazz harmonic theory, techniques, and practices of jazz improvisation in a variety of styles will be presented and explored. 54 lecture hours, 18 lab hours. CSU UC  
21777 Hoehne, W. TR 08:20 AM-09:45 AM PA 154 08/21-12/12  
21778 Hoehne, W. R 07:20 AM-08:10 AM PA 154 08/21-12/12  

**MUSC 142** Jazz Combos I  
1 Units  
Prerequisite: Audition.  
Strongly recommended: MUSE 070, MUSE 090, or MUSE 140. An introduction to small jazz ensemble performance practices and techniques, including improvisation. Students will study and perform easy standard selections of the small jazz ensemble repertoire. This class will be divided into multiple small jazz ensembles. Public performance required. 72 lab hours. CSU UC  
21983 Hoehne, W. TR 09:55 AM-11:20 AM PA 154 08/21-12/12  
Hoehne, W. F 08:30 AM-09:20 AM PA 154 08/21-12/12  

**MUSC 143** Jazz Combos II  
1 Units  
Prerequisite: Audition.  
Strongly recommended: MUSC 141 or MUSC 142. Intermediate small jazz ensemble performance practices and techniques, including improvisation. Students will study and perform intermediate-level standard selections of the small jazz ensemble repertoire. This class will be divided into multiple small jazz ensembles. Public performance required. 72 lab hours. CSU UC  
22115 Hoehne, W. TR 09:55 AM-11:20 AM PA 154 08/21-12/12  
Hoehne, W. F 08:30 AM-09:20 AM PA 154 08/21-12/12  

**MUSC 152** Songwriting II  
2 Units  
Strongly recommended: MUSC 151.  
This course expands the student's commercial songwriting techniques. Included are development of ideas, writing melodies, melodic expansion, chord progressions, form, and light orchestrations. 36 lecture hours, 18 lab hours. CSU UC  
21783 Boylan, J. M 09:45 AM-10:45 AM PA 193 08/21-12/12  
Boylan, J. M 02:55 PM-03:45 PM RA 111 08/21-12/12  
Boylan, J. W 09:55 AM-11:00 AM PA 193 08/21-12/12  

**MUSC 190** Career Opportunities in the Music Entertainment Industry  
3 Units  
This is a class for students interested in the music entertainment industry. Practices and procedures of artists and performers, record companies, live performance and touring, publishing, management, promotion, artist, radio station, video, and retail sales will be examined. Emphasis will be on prominent guest lecturers from various fields. 54 lecture hours. CSU  
21785 Desantis, M. MW 08:20 AM-09:45 AM PA 192 08/21-12/12  

**MUSC 204** Pop, Rock, and Jazz Performance Styles III  
4 Units  
Prerequisite: MUSC 104 or Audition.  
A more in depth study and performance of contemporary Pop, Rock, and Jazz styles. 36 lecture hours, 126 lab hours arranged. CSU  
22128 Mixson, V. T 08:10 AM-09:15 AM PA 192 08/21-12/12  
Mixson, V. R 08:10 AM-09:00 AM PA 192 08/21-12/12  

**MUSC 220** Studio Laboratory Band III  
4 Units  
Prerequisite: MUSC 121 or Audition.  
Exploration and performance of intermediate-advanced large studio ensemble literature. Topics include the performance of various contemporary styles, section playing, and solo preparation in the studio ensemble setting. 54 lecture hours, 54 arranged hours. CSU  
22312 Hoehne, W. TR 11:30 AM-12:55 PM PA 154 08/21-12/12  

**MUSC 221** Studio Laboratory Band IV  
4 Units  
Prerequisite: MUSC 220 or Audition.  
Exploration and performance of advanced large studio ensemble literature. Topics include the performance of various contemporary styles, section playing, and solo preparation in the studio ensemble setting. 54 lecture hours, 54 lab hours arranged. CSU  
22313 Hoehne, W. TR 11:30 AM-12:55 PM PA 154 08/21-12/12  

**MUSC 242** Jazz Combos III  
1 Units  
Prerequisite: Audition.  
Strongly recommended: MUSC 143 or MUSC 240. Intermediate-Advanced small jazz ensemble performance practices and techniques, including improvisation. Students will study and perform intermediate-advanced-level standard selections of the small jazz ensemble repertoire. This class will be divided into multiple small jazz ensembles. Public performance required. 72 lab hours. CSU UC  
21984 Hoehne, W. TR 09:55 AM-11:20 AM PA 154 08/21-12/12  
Hoehne, W. F 08:30 AM-09:20 AM PA 154 08/21-12/12  

**MUSC 243** Jazz Combos IV  
1 Units  
Prerequisite: Audition.  
Strongly recommended: MUSC 241 or MUSC 242. Advanced jazz ensemble performance practices and techniques, including improvisation. Students will study and perform advanced-level standard and non-standard selections of the small jazz ensemble repertoire. This class will be divided into multiple small jazz ensembles. Public performance required. 72 lab hours. CSU UC  
22317 Hoehne, W. TR 09:55 AM-11:20 AM PA 154 08/21-12/12  
Hoehne, W. F 08:30 AM-09:20 AM PA 154 08/21-12/12  

**MUSE 100** Music Fundamentals  
3 Units  
This course emphasizes basic music skills. Recommended for all students desiring a foundation in beginning theory, notation, ear training, and composition. 54 lecture hours. CSU UC  
21790 Cotter, S. MW 11:30 AM-12:55 PM PA 193 08/21-12/12  
21789 Hoehne, W. MW 09:55 AM-11:20 AM VT 215 08/21-12/12  

**Music - Education**
MUSE 101  Musicianship I  2 Units  
Corequisite: MUSE 102.  
Strongly recommended: Knowledge of sight-reading.  
An introductory class for the music major. Practice and skill development in melodic and rhythmic dictation, intervals, and sight-reading. Required of all music majors. 36 lecture hours. CSU UC

MUSE 102  Harmony I  3 Units  
Corequisite: MUSE 101.  
Strongly recommended: MUSE 100.  
An introductory class in music theory for the music major. Study of scales, intervals, chord types, and harmonic progression. Required of all music majors. 54 lecture hours. CSU UC

MUSE 109  Music Appreciation  3 Units  
This course is an introduction to music from the Middle Ages to the 20th Century. Instruction includes basic music theory, a study of prominent composers, and a survey of musical forms. Recommended for the non-music major. Recommended for music majors. 54 lecture hours. CSU UC

MUSE 110  History of Music I  3 Units  
This is an in-depth course examining the history of music as well as the lives and contributions of major composers from Antiquity, the Middle Ages, the Renaissance, and the Baroque periods. Recommended for music majors. Music majors must take either MUSE 110 or MUSE 111. 54 lecture hours. CSU UC

MUSE 111  History of Jazz  3 Units  
A survey of jazz music. This course provides an opportunity to explore jazz music, its origins, its many styles, and some of the great names whose artistry influenced its development. The effect of jazz on other musical forms such as classical and rock & roll will be explored as well. 54 lecture hours. CSU UC

MUSE 112  History of Rock and Roll  3 Units  
This course focuses on the rock musician, the music and the manner in which sociological, political, and economic conditions merged in the evolution of this art form. Listening and classroom discussion will be stressed. 54 lecture hours. CSU UC

MUSE 113  History of Rock and Roll  3 Units  
This course focuses on the rock musician, the music and the manner in which sociological, political, and economic conditions merged in the evolution of this art form. Listening and classroom discussion will be stressed. 54 lecture hours. CSU UC

MUSE 114  Introduction to American Music  3 Units  
Strongly recommended: ENGL 099 if required by English placement exam or if required by English level.  
A survey of American music from the seventeenth century until the present. Units include the Colonial music, spirituals, and gospel music, parlor songs, the ragtime and jazz era, the rise of classical music, music for the stage and screen, the blues, folk and protest music, country and western, and the birth of rock and roll. 54 lecture hours. CSU UC

MUSE 120  Elementary Piano I  2 Units  
For the beginning music student or non-music major. Covers all basic elements in elementary piano, including music reading, rhythm studies, technique, and scales. 36 lecture hours. CSU UC

MUSE 130  Voice - Beginning  2 Units  
Prerequisite: MUSE 130 or Audition.  
This course provides instruction and physical participation in the basic techniques necessary for good singing including posture, breathing, range extension and musicality. Additionally, beginning harmonic ear training provides tools for gradual improvement and musical achievement. 36 lecture hours, 18 lab hours. CSU UC

MUSE 140  Beginning Guitar I  2 Units  
Stringing, tuning, fingering, playing techniques, notation, chords and chord progressions, reading guitar music, playing simple melodies and accompaniment. 36 lecture hours. CSU UC

MUSE 141  Beginning Guitar II  2 Units  
Prerequisite: MUSE 140 or Audition.  
This course continues the development of skill begun in MUSE 140. In addition, the following areas are covered: barre chords, additional accompaniment techniques, and major and minor scale patterns in first position. 36 lecture hours. CSU UC

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 914-8833
MUSE 171  Musical Theatre Techniques  3 Units
This introductory course provides an overview of the techniques necessary for the performer in a live musical theatre production. Topics include history of American musical theatre, audition technique, rehearsal and performance techniques, and methods of production evaluation. 36 lecture hours, 54 lab hours arranged. CSU UC  
21818 Shrope, D.  M 04:00 PM-05:05 PM  PA 133 08/21-12/12
Shrope, D.  W 04:00 PM-04:50 PM  PA 133 08/21-12/12
Arranged hours scheduled on: Mondays 3pm-4pm & 5:05-5:50pm, Wednesdays 5:05pm-6:00pm plus additional arranged hours totaling 54 hours. + 54 TOTAL ARRG HRS

MUSE 188  Music Production Software/Hardware I  2 Units
Prerequisite: MUSE 100 or MUSE 120 or Audition.  
Strongly recommended: CIS 099.  
An introductory course in the use of music production software and hardware in the composition and arranging of music. Included are music sequencing, music revision/editing, instrumental mixing, echo effects, and CD production.  
Designed for the music major. 36 lecture hours. CSU  
21820 Alverson, D.  M 11:30 AM-12:35 PM  VT 320 08/21-12/12
Alverson, D.  W 11:30 AM-12:20 PM  VT 320 08/21-12/12

MUSE 189  Music Production Software/Hardware II  2 Units
Prerequisite: MUSE 188 or Audition.  
This course is a continuation of the use of music production software and hardware in the computerized realization ('mock up') of a musical composition/arrangement. Included are advanced concepts in music affected by the process of sequencing, editing, mixing and effects. 36 lecture hours. CSU  
22117 Alverson, D.  M 11:30 AM-12:35 PM  VT 320 08/21-12/12
Alverson, D.  W 11:30 AM-12:20 PM  VT 320 08/21-12/12

MUSE 201  Musicianship I  2 Units
Prerequisite: MUSE 103 and MUSE 104.  
Corequisite: MUSE 202.  
Melodic and rhythmic dictation and sight singing. Identification of intervals, chord qualities, scales, phrases and harmonic function. Required for transferring music majors. 36 lecture hours. CSU UC  
21821 Elset, G.  T 9:55 AM-11:00 AM  VT 215 08/21-12/12
Elset, G.  R 09:55 AM-10:45 AM  VT 215 08/21-12/12

MUSE 202  Harmony III  3 Units
Prerequisite: MUSE 104.  
Corequisite: MUSE 201.  
Continuation of first year's study, including seventh chords, secondary dominants, modality, harmonic structure of the phrase, harmonization of a given part, harmonic rhythm, irregular resolutions of secondary dominants, analysis of melodies, short works for piano, chorales, and songs. Required of all transferring music majors. 54 lecture hours. CSU UC  
21822 Elset, G.  MW 06:20 AM-09:45 AM  VT 319 08/21-12/12

MUSE 203  Musicianship IV  2 Units
Prerequisites: MUSE 201 and MUSE 202.  
Corequisite: MUSE 204.  
A continuation of MUSE 201. This course will include more challenging rhythmic, melodic, and harmonic dictation and solfège. Required for transferring music majors. 36 lecture hours. CSU UC  
22205 Elset, G.  T 09:55 AM-11:00 AM  VT 215 08/21-12/12
Elset, G.  R 09:55 AM-10:45 AM  VT 215 08/21-12/12

MUSE 204  Harmony IV  3 Units
Prerequisites: MUSE 201 and MUSE 202.  
Corequisite: MUSE 203.  
Continuation of first year's study, including seventh chords, secondary dominants, modality, harmonic structure of the phrase, harmonization of a given part, harmonic rhythm, irregular resolutions of secondary dominants, analysis of melodies, short works for piano, chorales, and songs. Required of all transferring music majors. 54 lecture hours. CSU UC  
22106 Elset, G.  MW 08:20 AM-09:45 AM  VT 319 08/21-12/12

MUSE 230  Voice- Intermediate/Advanced  2 Units

---

Music - Performance

MUSP 100  Concert Choir I - Beginning  3 Units
Strongly recommended: MUSE 130 or previous participation in choral ensembles.  
Open to all students capable of sustaining a vocal harmony part. Instruction in choral literature for the large choral ensemble. Special attention is given to choral tone production, phrasing and interpretation. Participation in public performances is required. 54 lecture hours, 18 lab hours arranged. CSU UC  
21986 Green, M.  TR 09:55 AM-11:20 AM  PA 133 08/21-12/12
ASSESSMENT AUDITION on the first day of class. This course does not have a waitlist. + 18 HRS ARRG

MUSP 101  Concert Choir II-Intermediate  3 Units
Prerequisite: Audition.  
Additional study of standard choral literature for the large choral ensemble.  
Students receive intermediate level instruction in tone production, phrasing, and interpretation. Participation in public performances is required. 54 lecture hours, 18 lab hours arranged. CSU UC  
22113 Green, M.  TR 09:55 AM-11:20 AM  PA 133 08/21-12/12
ASSESSMENT AUDITION on the first day of class. This course does not have a waitlist. + 18 HRS ARRG

MUSP 105  Women's Ensemble I Beginning  4 Units
Prerequisite: Audition.  
This course prepares the student for in-depth women's ensemble performance at the beginning level. Emphasis on study and performance of classical and popular compositions for women's ensemble. Public performance required. 36 lecture hours, 126 lab hours arranged. CSU UC  
21825 Mixson, V.  T 09:55 AM-11:20 AM  PA 133 08/21-12/12
Mixson, V.  R 09:55 AM-11:20 AM  PA 133 08/21-12/12
AUDITION REQUIRED This course does not have a waitlist. + 126 TOTAL ARRG HRS

MUSP 120  Chamber Singers I Beginning  4 Units
Prerequisite: Audition.  
This course includes the study and performance of composition for the mixed chamber choir ensemble. Includes compositions of the Baroque, Classic, and Romantic style period. Public performance required. Audition required. 36 lecture hours, 126 lab hours. CSU UC  
22097 Shrope, D.  M 09:55 AM-11:00 AM  PA 133 08/21-12/12
Shrope, D.  W 09:55 AM-10:45 AM  PA 133 08/21-12/12
Shrope, D.  TR 09:55 AM-11:20 AM  PA 133 08/21-12/12
Shrope, D.  F 07:35 AM-11:50 AM  PA 133 08/21-12/12
AUDITION REQUIRED. This course does not have a waitlist.

MUSP 121  Chamber Singers II Intermediate  4 Units
Prerequisite: MUSP 120 or Audition.  
This course includes the study and performance of composition for the mixed chamber chorale setting. Includes traditional compositions as well those of the contemporary style period. Public performance required. 36 lecture hours, 126 lab hours. CSU UC  
22325 Shrope, D.  M 09:55 AM-11:00 AM  PA 133 08/21-12/12
Shrope, D.  W 09:55 AM-10:45 AM  PA 133 08/21-12/12
Shrope, D.  TR 09:55 AM-11:20 AM  PA 133 08/21-12/12
Shrope, D.  F 07:35 AM-11:50 AM  PA 133 08/21-12/12
AUDITION REQUIRED. This course does not have a waitlist.
ASSESSMENT AUDITION REQUIRED. This course does not have a waitlist.

### MUSP 181  Musical Theater Orchestra I
4 Units
Prerequisite: Audition. Successful completion of MUSE 070 or MUSE 090 will support audition success.
Musical Theater Orchestra I offers beginning instruction in instrumental performance of conducted orchestral ensemble accompaniment of live staged dance, drama and song, including contemporary Broadway literature, and film and media soundtrack. This course introduces the unique challenges of musical theatre performance that differ from those of concert stage performance, including following live dramatic action, pit orchestra orientation, woodwind doubling, underscore, click track and headphone use, book organization and music marking. 36 lecture hours, 108 lab hours arranged.

CSU UC
21827 Hoehne, W. M 11:30 AM-12:35 PM PA 154 08/21-12/12
ASSESSMENT AUDITION REQUIRED. This course does not have a waitlist. + 108 HRS ARRG

### MUSP 182  Musical Theater Orchestra II
4 Units
Prerequisite: Audition. Musical Theater Orchestra II offers intermediate level instruction in instrumental performance of conducted orchestral ensemble accompaniment of live staged dance, drama and song, including contemporary Broadway literature, and film and media soundtrack. This course provides continuing opportunities to meet the unique challenges of musical theatre performance that differ from those of concert stage performance, including following live dramatic action, pit orchestra orientation, woodwind doubling, underscore, click track and headphone use, book organization and music marking. 36 lecture hours, 108 lab hours arranged.

CSU UC
21867 Hoehne, W. M 11:30 AM-12:35 PM PA 154 08/21-12/12
ASSESSMENT AUDITION REQUIRED. This course does not have a waitlist. + 108 HRS ARRG

### MUSP 200  Concert Choir III - Intermediate/Advanced
3 Units
Prerequisite: Audition - Skills Assessment. An intermediate/advanced study of standard choral literature of various periods for the large choral ensemble. Additional instruction in tone production, phrasing, range extension, and interpretation. Participation in public performances is required. 54 lecture hours, 18 lab hours arranged.

CSU UC
22289 Green, M. TR 01:05 PM-02:30 PM PA 133 08/21-12/12
ASSESSMENT AUDITION on the first day of class. This course does not have a waitlist. + 18 HRS ARRG

### MUSP 201  Concert Choir IV - Advanced
3 Units
Prerequisite: Audition - Skills Assessment. Advanced study of standard choral literature of various musical periods and vocal techniques as they apply to the advanced choral singer in a large choral ensemble. 54 lecture hours, 18 lab hours arranged.

CSU UC
22290 Green, M. TR 01:05 PM-02:30 PM PA 133 08/21-12/12
ASSESSMENT AUDITION on the first day of class. This course does not have a waitlist. + 18 HRS ARRG

### MUSP 281  Musical Theatre Orchestra III
4 Units
Prerequisite: Audition. Musical Theater Orchestra III offers advanced-intermediate level instruction in instrumental performance of conducted orchestral ensemble accompaniment of live staged dance, drama and song, including contemporary Broadway literature, and film and media soundtrack. This course provides continuing opportunities to meet the unique challenges of musical theatre performance that differ from those of concert stage performance, including following live dramatic action, pit orchestra orientation, woodwind doubling, underscore, click track and headphone use, book organization and music marking. 36 lecture hours, 108 lab hours arranged.

CSU UC
21988 Hoehne, W. M 11:30 AM-12:35 PM PA 154 08/21-12/12
ASSESSMENT AUDITION REQUIRED. This course does not have a waitlist. + 108 HRS ARRG

### MUSP 282  Musical Theatre Orchestra IV
4 Units
Prerequisite: Audition. Musical Theater Orchestra IV offers advanced level instruction in instrumental performance of conducted orchestral ensemble accompaniment of live staged dance, drama, and song, including contemporary Broadway literature, and film and media soundtrack. This course provides continuing opportunities to meet the unique challenges of musical theatre performance that differ from those of concert stage performance, including following live dramatic action, pit orchestra orientation, woodwind doubling, underscore, click track and headphone use, book organization and music marking. 36 lecture hours, 108 lab hours arranged.

CSU UC
22329 Hoehne, W. M 11:30 AM-12:35 PM PA 154 08/21-12/12
ASSESSMENT AUDITION REQUIRED. This course does not have a waitlist. + 108 HRS ARRG

### MUSP 290  Applied Music I Beginning
2 Units
A beginning level workshop class in applied music including a private one-half hour lesson per week, attendance and participation in a weekly concert hour and skill and repertoire building activities. 18 lecture hours, 108 lab hours arranged.

CSU UC
21991 Shrope, D. W 02:40 PM-03:45 PM PA 133 08/21-12/12
+ 108 TOTAL HRS ARRG

### MUSP 291  Applied Music II Intermediate
2 Units
Prerequisite: MUSP 290. An intermediate level workshop class in applied music with an emphasis on classical techniques which includes a private one-half hour lesson per week, attendance and participation in a weekly concert hour and skill and repertoire building activities. 18 lecture hours, 108 lab hours arranged.

CSU UC
21992 Shrope, D. W 02:40 PM-03:45 PM PA 133 08/21-12/12
+ 108 TOTAL HRS ARRG

### MUSP 292  Applied Music III Intermediate/Advanced
2 Units
Prerequisite: MUSP 291. An advanced level workshop class in applied music with an emphasis on popular techniques which includes a private one-half hour lesson per week, attendance and participation in a weekly concert hour and skill and repertoire building activities. 18 lecture hours, 108 lab hours arranged.

CSU UC
21993 Shrope, D. W 02:40 PM-03:45 PM PA 133 08/21-12/12
+ 108 TOTAL HRS ARRG

### NC 305  ESL Multiskills - Beginning 1
Units
ESL Multiskills - Beginning 1 introduces low-beginning English language learners to basic language skills that are needed to live in American society. This course teaches performing essential life skills through reading, writing, speaking, and listening in American English. Open entry/exit.

CSU UC
22360 Lee, J. MTWR 09:00 AM-12:05 PM LL 101 08/24-12/03
22361 Perez, N. MTWR 05:30 PM-08:35 PM LL 101 08/24-12/03

### NC 306  ESL Multiskills - Beginning 2
Units
ESL Multiskills - Beginning 2 expands on life and language skills learned in ESL Multiskills - Beginning 1 and is intended for high-beginning English language learners. This course teaches performing routine life skills and basic personal expression through reading, writing, speaking, and listening in American English. Open entry/exit.

CSU UC
22362 Kinder, R. MTWR 09:00 AM-12:05 PM LL 102 08/24-12/03
22363 Elhaj, N. MTWR 05:30 PM-08:35 PM LL 102 08/24-12/03

### NC 307  ESL Multiskills - Intermediate 1
Units
ESL Multiskills - Intermediate 1 expands on life and language skills learned in ESL Multiskills - Beginning 2 and is designed for low-intermediate English language learners. This course teaches basic skills needed to succeed in American society through reading, writing, speaking, and listening in American English. Open entry/exit.

CSU UC
22364 Goode, T. MTWR 09:00 AM-12:05 PM LL 114 08/24-12/03
22365 Kim, J. MTWR 05:30 PM-08:35 PM LL 114 08/24-12/03
## Schedule of Credit Classes - Fall 2015

### ESL Multiskills - Intermediate 2

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ESL Multiskills - Intermediate 2 is designed for English language learners at the high-intermediate level. This course introduces more complex language and life skills such as critical thinking, presenting arguments, and analyzing information through reading, writing, speaking, and listening in American English. Open entry/exit.

- Ascencio, D. MTWR 09:00 AM-12:05 PM LL 103 08/24-12/03
- Segovia, E. MTWR 05:30 PM-08:35 PM LL 103 08/24-12/03

### ESL Multiskills - Advanced

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ESL Multiskills - Advanced is designed for English language learners at the low-advanced level. This course prepares students for college level coursework, to find or improve a career, and to engage with native English speakers at a comparable level. Open entry/exit.

- Johnson, C. MTWR 09:00 AM-12:05 PM LL 113 08/24-12/03
- Zabayke, Z. MTWR 05:30 PM-08:35 PM LL 113 08/24-12/03

### ESL and Citizenship

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ESL and Citizenship teaches high beginning English language skills through U.S. civics and preparation to complete the USCIS interview and exams.

- Pons, C. TR 12:30 PM-02:50 PM LL 101 08/25-12/01

### Skilled Nursing Facility Activity Leader

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<th>CRN</th>
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A course designed to meet minimum state certification requirements for activity leaders in skilled nursing care facilities. This course will also be helpful to anyone involved with care in an extended care facility.

- Sailors, B. R 04:30 PM-10:20 PM TC 208 08/27-12/10

### Air Conditioning I

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Topics include fundamentals of refrigeration theory and practice, introductory basic electricity, service of refrigeration equipment and accessories including compressors, condensers, evaporators, and metering devices.

- Review for EPA exam.

### Air Conditioning II

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A course in the fundamentals of air conditioning, including ventilation, evaporation, cycles, charging, air distribution, control, electrical circuiting, venting, duct systems and diffusions. Emphasis on equipment selection, balance, adjustment, maintenance and service. Prepares students for EPA examination.

- Fallat, P. T 06:00 PM-09:10 PM TE 102 08/25-12/08

### Heating - Electrical and Gas

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This course includes absorption systems, heating and humidifying, also heat load and heat pump systems, systems controls, boilers, and instruments.

- Toda, J. R 06:00 PM-09:20 PM TE 102 08/27-12/10

### Introduction to Vocational Nursing

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Strongly recommended: ENGL 099 if required by English placement or if required by English level. Fundamental skills needed for health related occupations. Includes medical terminology, medical math, the application of computers to health care, techniques and learning tools to evaluate scientific readings, field study and exposure to health career opportunities. Offered for Pass/No Pass grading only.

- Lecture and Lab combined. Course does not have waitlist.

### Foundations of Nursing

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<td>RNRS 190</td>
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Prerequisite: Admission to the ADN program. The first course in the nursing sequence, students are introduced to the applications of critical thinking and the nursing process needed to provide basic care to clients in a variety of community, long term and acute care settings. Emphasis is on promoting optimum health across the health-illness continuum. Clinical experiences provide the opportunity to practice basic skills in the skills lab and the clinical setting. 36 lecture hours, 162 lab hours.

- Barajas, N. R 08:00 AM-12:20 PM TC 228 08/21-10/17
- Barajas, N. MT 06:45 AM-01:50 PM FD 08/21-10/17

### Introduction to Medical/Surgical Nursing I

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Prerequisites: BIOL 200, 201 and 220. Co-requisites: RNRS 190 and 192.

Introduction to Medical-Surgical Nursing I introduces the first year nursing student to concepts and practices as they relate to the non-critical patient in the medical-surgical environment. Through utilization of the nursing process, the student will recognize alterations in functioning or illness and formulate age-appropriate nursing interventions by utilizing the nursing process and critical thinking skills. 36 lecture hours, 162 lab hours.

- Barajas, N. R 08:00 AM-12:20 PM TC 228 08/21-10/17
- Barajas, N. M 06:45 AM-02:50 PM FD 08/21-10/17
- Barajas, N. T 06:45 AM-06:35 PM FD 08/21-10/17

### Pharmacology for Nurses

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Prerequisites: BIOL 200, 201, 220 or equivalents and admission to the ADRN Program. Co-requisites: RNRS 190 and 191.

The course introduces students to basic understandings of the interaction between drugs and living systems and prepares students for system application of drug therapy throughout the remainder of the program. The course includes instruction in drug classes and schedules, principles of drug administration, pharmacokinetics, pharmacodynamics across the life span, and legal and ethical issues related to drug administration. 36 lecture hours.

- Barajas, N. R 03:00 PM-05:05 PM TC 228 08/21-12/12
### RNRS 201 Medical-Surgical Nursing III 5 Units
Prerequisites: RNRS 193, 194, 195 or 200; and current standing as a LVN in California. This course examines the nursing care of selected individuals throughout the lifespan who are experiencing complex alterations in wellness involving multiple systems. Clinical experiences in local health care agencies and computerized simulation manikins and scenarios provide students opportunity to apply theoretical concepts to actual care of clients. 45 lecture hours, 135 lab hours.

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</table>

Lecture and lab sections.

Lab meets Saturdays 9/12/15 thru 11/21/15 6:45am to 7:35pm.

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Lecture and lab sections.

Lab meets Mondays 8/31/15 thru 11/15/15 6:45am to 7:35pm.

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Lecture and lab sections.

Lab meets Sundays 8/30/15 thru 11/1/15 6:45am to 7:35pm.

### RNRS 203 Mental Health-Psychiatric Nursing 3 Units
Prerequisites: RNRS 193, RNRS 194, RNRS 195 or RNRS 200. Strongly recommended: ENGL 099 if required by English placement or if required by English level. This course presents the principles of mental health and the social, economic, cultural and physiological factors that predispose a person to dysfunctional human behavior. Emphasis is placed on the therapeutic role of the nurse in promotion, preventing, maintaining and restoring individuals to optimal mental well-being. Concepts of therapeutic communication, age related concerns, treatment modalities, and delivery of mental health services are included. Clinical laboratory experiences are provided in community care facilities. 27 lecture hours, 81 lab hours.

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Lecture and lab sections.

Clinical days and times are subject to change.

Course does not have a waitlist.

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Lecture and lab sections.

Clinical days and times are subject to change.

Course does not have a waitlist.

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Lecture and lab sections.

Clinical days and times are subject to change.

Course does not have a waitlist.

### VNRS 150 Fundamentals of Nursing 3 Units
Prerequisite: NRS 100. Corequisites: VNRS 151L and current admission to the Vocational Nursing program. This course presents the evolution of nursing through history until the present time, defines the paradigm of health and illness, explores the issues of culture and ethnicity, and examines the nurse-client relationship. The course presents a wide variety of basic nursing procedures used in the practice of vocational nursing, including how to do the procedure, as well as why and when these procedures should be done. The course presents special tools of nursing: the nursing diagnosis and the nursing process, which are used to provide individualized care to clients. 54 lecture hours.

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Grauso, L. T 01:00 PM-03:20 PM TC 228 08/21-10/10

Grauso, L. T 03:30 PM-05:50 PM TC 228 08/21-10/10

### Class team taught: L. Grauso, J. Ellis
Lecture section only. Lab section also required.

**First 8 weeks.**

### VNRS 151L Fundamentals of Nursing Lab 3 Units
Prerequisites: NRS 100 and current admission to the Vocational Nursing program. Corequisite: VNRS 150. Clinical application of theoretical concepts of basic nursing functions. Offered for Pass/No Pass grading only. 162 lab hours.

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Clinical lab section only. Also required, enrollment in VNRS 150 lecture, CRN 20752. First 8 weeks. Meets on campus in PC 212 Wed & Fri. 6:45am to 6:05pm 8/26/15 - 9/18/15; and at clinical facilities off campus 9/23/15 to 10/9/15.

NOTE: Lab days and times are subject to change.

### VNRS 152 Pharmacology I 1 Units
Prerequisite: NRS 100. A beginning course in pharmacology. Elementary use of drug formulas, conversions, and dosage forms. Interpreting medical orders, and reading drug labels by learning common abbreviations; calculating I.V. flow rates is also included. 18 lecture hours.

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**First 8 weeks.**

### VNRS 153 Introductory Nutrition for the Vocational Nurse 1 Units
Prerequisite: NRS 100. This course introduces the fundamentals of nutrition to the nursing student by discussing the relationship of food and health and the body's utilization of the six essential nutrients. Content also includes the five basic food groups, the food guide pyramid, and how to define and achieve a well-balanced diet. This course establishes the foundation needed for further study of nutrition in VNRS 163. 18 lecture hours.

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**First 8 weeks.**

### VNRS 154 Body Structure Function for the Vocational Nurse I 1.5 Unit: 1 Units
Prerequisite: NRS 100. Corequisites: VNRS 150, 151L, 152, 153, 155. Strongly recommended: ENGL 099 if required by English placement or if required by English level. Vocational nursing students will explore the basic facts of human anatomy and the principles of physiology with selected clinical examples. 27 lecture hours.

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**First 8 weeks.**

### VNRS 155 Social Psychology for the Vocational Nurse 1 Units
Prerequisite: NRS 100. Corequisites: VNRS 150, VNRS 151L, and VNRS 152. This course introduces basic concepts of psychology while helping students relate them to their patient and themselves. It includes information about personality development, wellness, and personal care, assertiveness, job-related communication, cultural and spiritual differences, employability skills, the role of the LVN, general legal aspects and nursing ethics. 18 lecture hours.

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**First 8 weeks.**

### VNRS 160 Medical - Surgical Nursing I 3 Units
Prerequisite: VNRS 150. Corequisite: VNRS 161L. This course presents the theory and principles of nursing care for clients with illness and/or injury of the musculoskeletal, integumentary, and gastrointestinal systems. The course presents the principles and skills needed to perform a beginning level assessment of clients with alterations of these systems, within the scope of practice of the LVN. The course presents the application of the nursing process to the planning and care of these clients. 54 lecture hours.

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Grauso, L. T 01:00 PM-03:20 PM TC 228 10/19-12/05

Grauso, L. T 03:30 PM-05:50 PM TC 228 10/19-12/05

### Class team taught: J. Ellis, L. Grauso
Lecture section only. Lab section also required.

**Second 8 weeks.**

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 41
1.5 Units
Students required to take exams on campus. Online classes will be October 26, November 9, and November 30, 2015, as well as Wednesday, December 9, 2015. Class will also meet on the following Mondays: October 19, November 2, After registering go to www.citruscollege.edu/de

20767 D’Amato, J. RF 11:00 AM-10:25 PM FD 08/21-12/12 Lab section only. Also required, VNRS 170 lecture, CRN 20766. NOTE: Lab days and times are subject to change.

20768 Wong, J. WR 08:45 AM-08:10 PM FD 08/21-12/12 Lab section only. Also required, VNRS 170, CRN 20766. NOTE: Lab days and times are subject to change.

Second 8 weeks.

Clinical days and times are subject to change. Also meets on campus Fri. 7:00am to 3:50pm, 10/23/15 and 11/6/15. Meets Wed. & Fri. 6:45am to 4:50pm, 10/21/15 - 12/04/15. Lab section only. Also required, VNRS 160 lecture, CRN 20759. Prerequisite: VNRS 150.

20766 Ellis, J. HRS-ARRG FD 10/19-12/05 Lab section only. Also required, VNRS 160 lecture, CRN 20759. Meets Wed. 6:45am to 4:50pm & Thurs. 12:00 to 10:05pm, 10/21/15 - 12/3/15. Also meets on campus Fri. 7:00am to 3:50pm, 10/23/15 and 11/6/15. Clinical days and times are subject to change.

20765 Grauso, L. T 06:45 AM-08:50 AM TC 228 10/19-12/12 Second 8 weeks.

VNRS 165 Adult Growth and Development for the Vocational Nurse 1 Units
Prerequisite: VNRS 150. Theoretical principles of growth and development. Nursing assessment and promotion of health of the adult from early childhood through death. 18 lecture hours.

20764 Ellis, J. M 07:00 AM-10:10 AM TC 228 10/19-12/12 Second 8 weeks.

VNRS 164 Body Structure and Function for the Vocational Nurse II 1.5 Units
Prerequisite: VNRS 154. Corequisite: VNRS 160. A continuation of body structure and function for the vocational nurse with clinical case studies. 27 lecture hours.

20763 Grauso, L. T 06:45 AM-08:50 AM TC 228 10/19-12/12 Second 8 weeks.

VNRS 163 Diet Therapy for the Vocational Nurse 1 Units
Prerequisite: VNRS 153. This course presents nutritional needs across the lifespan, including the nutritional needs of healthy adults and the needs of people with certain illnesses, as well as nutritional needs related to pregnancy and lactation. Content includes nutritional assessment and planning and the use of therapeutic diets in the treatment of certain illnesses. This course builds on the fundamentals of nutrition presented in VNRS 153. 18 lecture hours.

20762 Wong, J. M 02:00 PM-04:05 PM TC 228 10/19-12/12 Second 8 weeks.

VNRS 162 Pharmacology II 1 Units
Prerequisites: VNRS 150, 151L, 152, 153, 154, 155. Fundamental principles of drug action, the application of specific drugs in the treatment of disease, and the appropriate nursing actions to maximize the desired outcome of therapy. 18 lecture hours.

20761 D’Amato, J. T 07:00 AM-10:10 AM TC 228 10/19-12/12 Second 8 weeks.

VNRS 170 Medical-Surgical Nursing II 7 Units
Prerequisites: VNRS 160, 161L, 162, 163, 164. Corequisite: VNRS 171L. Provides advanced nursing students the theory needed to perform skills and procedures for the adult in VNRS 171L. By consistently emphasizing the nursing process and rationale, the approach to each body system includes basic assessment or data collection, planning, implementation, evaluation and documentation. Basic nursing skills are reinforced while advance skills include those related to the following body systems: cardiovascular, respiratory, neurological, genitourinary, endocrine and special senses. 128 lecture hours.

20766 D’Amato, J. M 08:45 AM-08:10 PM TC 229 08/21-12/12 Lecture section only. Lab section also required.

20096 James, R. MW 08:20 AM-09:50 AM LB 201 08/21-12/12

20097 James, R. MW 10:00 AM-10:50 AM LB 201 08/21-12/12

Office Tech & Computer Apps
OFF 101 Introduction to Microsoft Office 3 Units
Introduction to Windows and Microsoft Office Suite applications. Computer applications include word processing, spreadsheets, database management, presentation graphics, scheduling/time management, and the Internet. 54 hours lecture, 36 hours lab. CSU 54 lab hours.

22391 Tucker, G. HRS-ARRG 08/21-12/12

Tucker, G. HRS-ARRG 08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de Lecture and lab section.

Mandatory on-campus meetings Monday 7:00am - 8:30am, 8/24/15, 10/19/15 and 12/7/15 in TC 229. Also required to meet on campus Fridays 7:00am - 1:35pm, 8/28/15 to 10/16/15 in TC 229.

22392 Tucker, G. HRS-ARRG 08/21-12/12

Tucker, G. HRS-ARRG 08/21-12/12

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de Lecture and lab section.

Mandatory on-campus meetings Monday 7:00am - 8:30am, 8/24/15, 10/19/15 and 12/7/15 in TC 229. Also required to meet on campus Wednesdays 7:00am - 2:30pm, 10/21/15 to 12/15/15 in TC 229.

Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 42
<table>
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<th>CRN</th>
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<td>OFF 120</td>
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<td>OFF 284</td>
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<td>PHIL 101</td>
<td>Great Religions of the World</td>
<td>3 Units</td>
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<td>3 Units</td>
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<td>3 Units</td>
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**PHIL 101 Great Religions of the World**

- **CRN:** 20099
- **Instructor:** James, R.
- **Days:** MW
- **Time:** 09:55 AM-10:45 AM
- **Room:** LB 201
- **Units:** 3

**PHIL 108 Philosophy - Ethics**

- **CRN:** 20196
- **Instructor:** Saldana, R.
- **Days:** TR
- **Time:** 09:55 AM-11:20 AM
- **Room:** LB 101
- **Units:** 3

**PHIL 110 Philosophy - Logic**

- **CRN:** 20232
- **Instructor:** Butler, S.
- **Days:** MW
- **Time:** 08:20 AM-09:45 AM
- **Room:** LB 306
- **Units:** 3

**PHTO 101 Basic Photography**

- **CRN:** 20302
- **Instructor:** Atteberry, D.
- **Days:** MW
- **Time:** 01:00 PM-02:15 PM
- **Room:** LB 204
- **Units:** 3

**PHTO 102 Intermediate Photography**

- **CRN:** 21110
- **Instructor:** Baliton, J.
- **Days:** T
- **Time:** 01:00 PM-02:15 PM
- **Room:** LB 204
- **Units:** 3

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**Note:** Course Dates indicate Beginning and Ending Dates. M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=Saturday. Distance Education Class: After registering go to www.citruscollege.edu/de

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**Register online at citruscollege.edu/ar   WingSpan Registration Help Desk (626) 914-8833   Admissions and Records office (626) 914-8833**
## Schedule of Credit Classes - Fall 2015

### PHYS 110  Introduction to College Physics  4 Units

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**Prerequisite:** MATH 190.

Fundamental principles of mechanics, vectors, motion, work, energy, momentum, and rotational motion. Required for all majors in engineering, physics, chemistry, and some geology and mathematics majors. 72 lecture hours, 54 lab hours. CSU UC

### PHYS 201  Physics A: Mechanics  5 Units

**Prerequisite:** MATH 190.

Basic principles of mechanics, vectors, motion, work, energy, momentum, and rotational motion. Required for all majors in engineering, physics, chemistry, and some geology and mathematics majors. 72 lecture hours. 44 lab hours. CSU UC

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### PHYS 203  Physics C: Waves, Optics & Modern Physics  5 Units

**Prerequisites:** PHYS 201 and MATH 191. MATH 191 may be taken concurrently.

Core topics are waves, optics and modern physics. This course is intended for students majoring in physical sciences and engineering and is part of a three-semester course. 72 lecture hours, 54 lab hours. CSU UC

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### POLI 103  American Government and Politics  3 Units

**Strongly recommended:** ENGL 099 if required by English placement or if required by English level.

This course deals with the origins and functions of the government of the United States with special emphasis on the background and causes of present problems. It meets the United States Constitution graduation requirement and includes local and state government. 54 lecture hours. CSU UC

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<th>Days</th>
<th>Time</th>
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### POLI 116  International Relations  3 Units

**Strongly recommended:** ENGL 099 if required by English placement or if required by English level.

An examination of basic theories of international relations and their relevance to contemporary world politics. 54 lecture hours. CSU UC

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### POLI 104  Introduction to Political Science  3 Units

**Strongly recommended:** ENGL 099 if required by English placement or if required by English level.

An introduction to the principles and practices of government. Political theories and contemporary ideologies; nature of the state; constitution and law; public opinion; mass media; the nature of foreign policy and international politics. 54 lecture hours. CSU UC

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### POLI 105  Comparative Politics  3 Units

**Strongly recommended:** ENGL 099 if required by English placement or if required by English level.

An introductory course to acquaint students with the types of governmental systems which people establish in their various localities around the world and the competing values that tend to result in conflicts between opposing groups of people. An in-depth analysis of competing political ideologies, electoral procedures, and governing institutions is the course's main focus. This course is structured to provide a regional and comparative approach to the study of politics at the global level. 54 lecture hours. CSU UC

<table>
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### PSY 101  Psychology  3 Units

**Strongly recommended:** ENGL 099 if required by English placement or if required by English level.

An introductory course to acquaint students with the types of governmental systems which people establish in their various localities around the world and the competing values that tend to result in conflicts between opposing groups of people. An in-depth analysis of competing political ideologies, electoral procedures, and governing institutions is the course's main focus. This course is structured to provide a regional and comparative approach to the study of politics at the global level. 54 lecture hours. CSU UC

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**Note:** Course Dates indicate Beginning and Ending Dates

- M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=Saturday

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 914-8833
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</table>

### Schedule of Credit Classes - Fall 2015

**Note:** Course Dates indicate Beginning and Ending Dates

**M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=Saturday**
### Public Works

**PUB 150  Introduction to Public Works**  
3 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
A comprehensive course in public works inspection, including Portland cement concrete, asphaltic concrete, soils, base and subgrade materials. Contracts and specifications and plans will be discussed. Utilities, including underground water, sewer and storm drains will be covered, with emphasis on the safety aspects of trenching, tunneling and jack. Responsibilities of the contractor, the engineer, the inspector and the owner will be included. Surveying and staking will be reviewed. Prime consideration will be given to inspection records, duties and job diary techniques. 54 lecture hours.

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<th>CRN</th>
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**PUB 155  Public Works Investigations**  
3 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
A comprehensive course in public works inspections, including Portland cement concrete, asphaltic concrete, soils, base and subgrade materials. Contracts and specifications and plans will be discussed. Utilities, including underground water, sewer and storm drains will be covered, with emphasis on the safety aspects of trenching, tunneling and jack. Responsibilities of the contractor, the engineer, the inspector and the owner will be included. Surveying and staking will be reviewed. Prime consideration will be given to inspection records, duties and job diary techniques. 54 lecture hours.

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**PUB 157  Asphalt and Portland Cement**  
3 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
A comprehensive course in asphaltic concrete and Portland cement concrete construction technology following the standards of the Asphalt Institute, standard specifications for public works construction, American Concrete Institute and the Portland Cement Association. Included will be design production, placement, consolidation and compaction of the materials. Evaluation of surface defects, maintenance and safety will be covered. 54 lecture hours.

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**PUB 158  Municipal and Urban Tree Care**  
3 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
A course in tree care for persons currently employed or seeking future employment in the public works or private landscape industry: tree anatomy, physiology, pruning, cabling, identification, root structure and its effects on infrastructure, soil management and irrigation are covered in detail. The course is designed to prepare students to pass the Tree Worker Certification and/or pass the certified arborist exam given by the Western Chapter, International Society of Arboriculture. 54 lecture hours.

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### Recording Technology

**REC 100  Survey of Entertainment Technology**  
4 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
This course is an introduction to conventional and online entertainment technology. Includes exploring the content and creation of recorded music, television, radio, live theatre, film, video and electronic gaming: lecture, demonstration, field trips and guest professionals; media creation. 72 lecture hours.

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**REC 103  Introduction to Audio Engineering**  
4 Units  
Provisionally recommended: ENGL 099 if required by English placement or if required by English level.  
This course is an introduction to the current technology, terminology and techniques used in audio engineering for recorded music, video and online media. Includes the history of audio, basic audio electronics, microphones, consoles, computer-based production systems and related signal processors. 54 lecture hours, 54 lab hours.

<table>
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**REC 135  Live Sound Reinforcement**  
4 Units  
Corequisite: REC 105 or THEA 120.  
This course focuses on the essential elements of sound reinforcement: acoustics, sound equipment and mixing techniques. Major subject areas are acoustics, microphones, live sound consoles, speakers, placement, mixing and the cumulative effects to the final sonic product. 54 lecture hours, 72 lab hours.

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### Social Science

#### Sociology

**SOC 114**  
*MARRIAGE, FAMILY, AND INTIMATE RELATIONS*  
3 Units  

- **CRN:** 20474  
- **Instructor:** Molina, L.  
- **Days:** TR  
- **Time:** 07:00 AM-09:30 AM  
- **Location:** LB 106  
- **Term:** 08/21-12/12  

**SOC 201**  
*INTRODUCTION TO SOCIOLOGY*  
3 Units  

- **CRN:** 20305  
- **Instructor:** Palacios, R.  
- **Days:** FS  
- **Time:** 08:20 AM-10:50 AM  
- **Location:** LB 106  
- **Term:** 08/21-12/12  

---

### Spanish

#### SPAN 101  
*SPANISH I*  
5 Units  

- **CRN:** 20300  
- **Instructor:** Feig, K.  
- **Days:** R  
- **Time:** 07:00 PM-10:10 PM  
- **Location:** LB 302  
- **Term:** 08/21-12/12  

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### Course Schedule - Fall 2015

#### Schedule of Credit Classes - Fall 2015

**CRN**  
**Instructor**  
**Days**  
**Time**  
**Room**  

**SOC 202**  
*CONTEMPORARY SOCIAL PROBLEMS*  
3 Units  

- **CRN:** 20395  
- **Instructor:** White, G.  
- **Days:** TR  
- **Time:** 09:55 AM-11:20 AM  
- **Location:** LB 103  
- **Term:** 08/21-12/12  

---

**SPAN 102**  
*SPANISH II*  
5 Units  

- **CRN:** 20300  
- **Instructor:** Feig, K.  
- **Days:** R  
- **Time:** 03:40 PM-06:50 PM  
- **Room:** ED 129  
- **Term:** 08/21-12/12  

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Admissions and Records office (626) 47
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<td>08/21-12/12</td>
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<td>12/7/2015</td>
<td>08/21-12/12</td>
<td>3 Units</td>
<td>SPCH 106 Small Group Communication</td>
<td>3 Units</td>
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**SPAN 127 Spanish Civilization**

Strongly recommended: ENGL 099 if required by English placement or if required by English level. Spanish Civilization provides an interdisciplinary global understanding of the history and culture of Spain. For students majoring in contemporary Spanish, the course critically analyzes contemporary Spanish society by examining the social and historical traditions and institutions that shape the Spanish way of life in the 20th century. This course is the same as HIST 127, 54 lecture hours. CSU UC.

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<th>CRN</th>
<th>Instructor</th>
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<td>11:30 AM-12:55 PM</td>
<td>P1 103</td>
<td>12/7/2015</td>
<td>08/21-12/12</td>
<td>SPCH 100 Interpersonal Communication</td>
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<tr>
<td>20469</td>
<td>Fincher, J.</td>
<td>TR</td>
<td>05:00 PM-06:15 PM</td>
<td>TC 127</td>
<td>12/7/2015</td>
<td>08/21-12/12</td>
<td>SPCH 103 Argumentation and Debate</td>
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<td>12/7/2015</td>
<td>08/21-12/12</td>
<td>SPCH 106 Small Group Communication</td>
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**SPCH 100 Interpersonal Communication**

Strongly recommended: ENGL 099 if required by English placement or if required by English level. Introduction to interpersonal communication: verbal and non-verbal face-to-face interactions; understanding messages sent and received; awareness and resolution of communication barriers. 54 lecture hours. CSU.

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<tr>
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<td>08/21-12/12</td>
<td>54 Units</td>
<td>MANDATORY ON-CAMPUS SPEECH PRESENTATION MEETINGS TUESDAYS 4-9 pm (Must attend entire class meeting) on 8/22, 10/20, 11/24, MANDATORY ON-CAMPUS FINAL 12/7.</td>
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**SPCH 101 Public Address**

Strongly recommended: ENGL 099 if required by English placement or if required by English level. An introductory course in communication and speaking skills, including the selection, preparation, and delivery of speeches for various/ diverse audiences and situations. The goal will be the achievement of ethical, purposeful, and effective public speaking. 54 lecture hours. CSU UC.

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**Speech**

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Theatre Arts

THEA 101  Introduction to Theatre Arts  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Background and foundation for appreciation and evaluation of theatre arts.
Course will include a study of dramatic structure, history of the theatre, plays and playwrights, and a study of contemporary theatre production. 54 lecture hours. CSU UC
20075 Volonte, D. TR 09:55 AM-11:20 AM PA 192 08/21-12/12
21832 Volonte, D. HRS-ARRG 08/21-12/12
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
21833 Slay, K. R 07:00 PM-10:05 PM VT 208 08/21-12/12

THEA 105  Improvisation for the Theatre  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A fundamental course introducing the techniques of improvisation to enhance character development. Focus is on group expression, problem-solving, focus, imagination, concentration and spontaneity with and without dramatic text. 54 lecture hours, CSU UC
22018 Tylt, C. MW 02:40 PM-04:05 PM PA 181 08/21-12/12

THEA 120  Introduction to Tech for Theatre, TV and Film  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
An introduction to the technical areas of lighting, scenery, sound and costumes for theatre, film and television. Field trips include area theatres and studios. 54 lecture hours. CSU UC
20028 Volonte, D. TR 02:40 PM-04:05 PM VT 208 08/21-12/12

THEA 125  Technical Theatre Production  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A course in which students will gain practical experience while participating in a variety of productions in any of the following: construction crew, scenery crew, properties crew, costume crew, or running crew. 36 lecture hours, 54 lab hours arranged. CSU UC
20037 Volonte, D. T 01:05 PM-02:10 PM VT 208 08/21-12/12
Volonte, D. R 01:05 PM-01:55 PM VT 208 08/21-12/12
+ 54 TOTAL HRS ARRG

THEA 126  Technical Theatre Technician  3 Units
Prerequisites: THEA 120 and THEA 125 and THEA 140
A course in which students will gain practical experience while participating in a variety of theatre productions in any of the following: lighting crew, sound crew, rigging and automation crew. 36 lecture hours, 54 lab hours. CSU UC
22454 Volonte, D. T 01:05 PM-02:10 PM VT 208 08/21-12/12
Volonte, D. R 01:05 PM-01:55 PM VT 208 08/21-12/12
+ 54 TOTAL ARRG'D HRS

THEA 127  Technical Theatre Crew Lead  3 Units
Prerequisite: THEA 160
A course in which students will gain practical crew lead experience while participating in a variety of productions in any of the following: lighting crew lead, sound crew lead, running crew lead, or rigging and automation crew lead. 36 lecture hours, 54 lab hours. CSU UC
22455 Volonte, D. T 01:05 PM-02:10 PM VT 208 08/21-12/12
Volonte, D. R 01:05 PM-01:55 PM VT 208 08/21-12/12
+ 54 TOTAL ARRG'D HRS

THEA 140  Introduction to Lighting for Theatre, Television and Film  3 Units
Prerequisite: THEA 120 or concurrent enrollment.
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A visual survey through field trips, lecture, video and computer of lighting design for theatre, television, film and concerts. 54 lecture hours, 36 lab hours arranged. CSU UC
20019 Volonte, D. TR 11:30 AM-12:55 PM VT 208 08/21-12/12
+ 436 TOTAL HRS ARRG

THEA 201  Stage Acting I - Beginning  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A beginning level performance class with an introduction to the Stanislavski Method of Acting. Provides a beginning in memorization, stage movement, vocal production and interpretation of text. 54 lecture hours, 36 lab hours. CSU UC
20012 Brown, C. MW 09:55 AM-11:20 AM PA 181 08/21-12/12
Brown, C. F 08:20 AM-10:25 AM PA 181 08/21-12/12
21834 Brown, C. MW 11:30 AM-12:55 PM PA 181 08/21-12/12
Brown, C. F 11:30 AM-01:35 PM PA 181 08/21-12/12

THEA 202  Stage Acting II - Intermediate  3 Units
Prerequisite: THEA 201 or Audition.
An extension of the concepts as introduced in THEA 201. A more in-depth approach to contemporary theatre using the Stanislavski method as well as other methods of acting in character and scene study and analysis. Students may perform in an Acting Showcase at semester's end. 54 lecture hours, 36 lab hours. CSU UC
20022 Brown, C. MW 09:55 AM-11:20 AM PA 181 08/21-12/12
Brown, C. F 08:20 AM-10:25 AM PA 181 08/21-12/12
21835 Brown, C. MW 11:30 AM-12:55 PM PA 181 08/21-12/12
Brown, C. F 11:30 AM-01:35 PM PA 181 08/21-12/12

THEA 205  Stage Acting III - Intermediate/Advanced  3 Units
Prerequisite: THEA 202.
An extension of the concepts as introduced in THEA 201 and 202. Creating roles through intensive scene and monologue study. Approaches to individual actor problems. Students may perform in an Acting Showcase at semester's end. 54 lecture hours, 36 lab hours. CSU UC
21836 Brown, C. MW 01:05 PM-02:30 PM PA 181 08/21-12/12
Brown, C. F 02:40 PM-04:45 PM PA 181 08/21-12/12

THEA 206  Stage Acting IV - Advanced  3 Units
Prerequisite: THEA 205.
An extension of the concepts as introduced in THEA 201, 202 and 205. A more detailed breakdown of the basic concepts in the Stanislavski System. A focus on creating more nuanced characterizations. Students will perform in an Acting Showcase at semester's end. 54 lecture hours, 36 lab hours. CSU UC
22013 Brown, C. MW 01:05 PM-02:30 PM PA 181 08/21-12/12
Brown, C. F 02:40 PM-04:45 PM PA 181 08/21-12/12

THEA 210  Rehearsal and Performance in Production  3 Units
Prerequisite: Audition.
Participation in the production of a full length play for public performance. Productions will be entered into the American College Theatre Festival for adjudication and competition. This course may be taken four times. 18 lecture hours, 108 lab hours. CSU UC
20585 Weiss, N. S 08:00 AM-09:05 AM PA 181 09/12-12/12
Weiss, N. S 09:15 AM-03:40 PM PA 192 09/12-12/12
AUDITION REQUIRED: Audition times and sign-up sheet will be posted in Late August by the little theatre (PA181) prior to the beginning of this class. This course does not have a waitlist.

THEA 211A Camera Acting I - Beginning  3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
The practice and study of the fundamental techniques required in acting before the camera in film and television in contrast to the variance from stage work. Students will address areas of non-verbal imagination work and movement for the camera; the structure of film and television settings; marketing strategies; "green screen" performance and improvisation techniques. 54 lecture hours, 36 lab hours. CSU UC
21837 Weiss, N. W 07:00 PM-10:10 PM PA 193 08/21-12/12
Weiss, N. W 10:20 PM-11:10 PM PA 193 08/21-12/12
Weiss, N. S 04:00 PM-05:05 PM PA 193 08/21-12/12
21838 Lewis, J. T 07:00 PM-10:10 PM PA 193 08/21-12/12
Lewis, J. T 10:20 PM-11:10 PM PA 193 08/21-12/12
Lewis, J. S 04:00 PM-05:05 PM PA 193 08/21-12/12

Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 914-8500
THEA 211B Camera Acting II - Intermediate 3 Units
Prerequisite: THEA 211A.
A more detailed study of the fundamental techniques required in acting before the camera in film and television in contrast to the variance from stage work. Students will address areas of scripted monologues, blocking, memorization, basic audition techniques, Voice Overs, ADR techniques and the concept of Continuity. 54 lecture hours, 36 lab hours. CSU UC
Weiss, N. N. 21813 Weiss, N. N. W 07:00 PM-10:10 PM PA 193 08/21-12/12
Weiss, N. W 10:20 PM-11:10 PM PA 193 08/21-12/12
21840 Weiss, N. S 04:00 PM-05:05 PM PA 181 08/21-12/12

THEA 212C Camera Acting III - Intermediate/Advanced 3 Units
Prerequisite: THEA 211B.
A build upon the skills developed in content introduced in Camera Acting I and II. A more intense and comprehensive introduction to specific performance, terminology, working in studio and on location front-of-camera experience. Skills addressed are given circumstances, casting/director workshops, and the division of labor on television and film sets. 54 lecture hours, 36 lab hours. CSU UC
Weiss, N. W 22005 Weiss, N. W 07:00 PM-10:10 PM PA 193 08/21-12/12
Weiss, N. W 10:20 PM-11:10 PM PA 193 08/21-12/12
Weiss, N. S 04:00 PM-05:05 PM PA 181 08/21-12/12

THEA 211D Camera Acting IV - Advanced 3 Units
Prerequisite: THEA 211C.
A build upon the skills developed in content introduced in Camera Acting I, II and III. An introduction to multi-camera situations - soap opera, sitcom and film. Group projects coordinating all the elements in a film and/or television setting. 54 lecture hours, 36 lab hours. CSU UC
Weiss, N. W 22309 Weiss, N. W 07:00 PM-10:10 PM PA 193 08/21-12/12
Weiss, N. W 10:20 PM-11:10 PM PA 193 08/21-12/12
Weiss, N. S 04:00 PM-05:05 PM PA 181 08/21-12/12

THEA 222 Theatre Practicum/Special Projects II - Storytelling 3 Units
Prerequisite: Audition. Strongly recommended: ENGL 099 if required by English placement or if required by English level.
Developing the actor's self and responsive body through character study. A personal in-depth approach to creating character from the external to the internal through improvisation and physical exercises. 18 lecture hours, 108 lab hours. CSU UC
22010 Weiss, N. S 08:00 AM-09:05 AM PA 181 09/12-12/12
Weiss, N. S 09:15 AM-03:40 PM PA 192 09/12-12/12
AUDITION REQUIRED: Audition times and sign-up sheet will be posted in Late August by the little theatre (PA181) prior to the beginning of this class. This course does not have a waitlist.

THEA 226 Concert Touring Technician 3 Units
Prerequisites: THEA 120 and THEA 125 and THEA 140.
A course in which students will gain practical experience while participating in a variety of concert productions in any of the following: prep crew, load in crew, running crew, strike crew, lighting crew, or sound crew. 18 lecture hours, 108 lab hours arranged. CSU
22458 Slay, K. S 22458 Slay, K. S 09:00 AM-10:05 AM VT 208 08/21-12/12
+ 108 TOTAL ARRG HRS

THEA 227 Concert Touring Production 3 Units
Prerequisite: THEA 160
A course in which students will gain practical experience while participating in a variety of concert touring productions in any of the following: assistant project coordinator, assistant lighting designer, assistant artist, or assistant master electrician. 18 lecture hours, 108 lab hours arranged. CSU
22457 Slay, K. S 22457 Slay, K. S 09:00 AM-10:05 AM VT 208 08/21-12/12
+ 108 TOTAL ARRG HRS

THEA 255 Entertainment Production for Theme Parks and Themed Environments 2 Units
Prerequisite: THEA 160.
An in-depth look at how to produce and execute themed entertainment for corporate events/shows and other non-traditional theatrical venues. 36 lecture hours, 9 lab hours. CSU UC
22017 Miller, D. HRS-ARRG 08/21-12/12
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

THEA 262 Rigging and Automation for Theatre and Live Events 2 Units
Prerequisite: THEA 160.
The theory and practice of scenery automation and stage rigging with emphasis on theatre venues and the design of systems for special production events. 36 lecture hours, 9 lab hours. CSU UC
22016 Holbrook, J. 04:55 PM-07:05 PM VT 117 08/21-12/12
+ 9 TOTAL HRS ARRG

THEA 270 Introduction to Production Management 3 Units
Prerequisite: THEA 120 or concurrent enrollment.
A survey of Production Management, exploring the relationship between the artistry and the execution of show production in the entertainment industry. 54 lecture hours, 18 lab arranged. CSU UC
22014 Miller, M. F 07:40 AM-10:50 AM PA 193 08/21-12/12
+ 18 TOTAL ARRG HRS

THEA 292A Special Techniques in Acting - Beginning 3 Units
Prerequisite: THEA 292A or Audition.
A more detailed approach in applying the Stanislavski Method to various genres of theatrical literature. A fundamental examination of how social and cultural influences affect the playwright's choices will be analyzed through scenes and monologues. 54 lecture hours, 36 lab hours. CSU UC
22011 Brown, C. MW 01:05 PM-03:20 PM PA 181 08/21-12/12
Brown, C. F 02:40 PM-04:45 PM PA 181 08/21-12/12

THEA 292B Special Techniques in Acting - Intermediate 3 Units
Prerequisite: THEA 292B or Audition.
A more detailed approach in applying the Stanislavski Method to various genres of theatrical literature. A fundamental examination of how social and cultural influences affect the playwright's choices will be analyzed through scenes and monologues and short plays. 54 lecture hours, 36 lab hours. CSU UC
22012 Brown, C. MW 01:05 PM-03:20 PM PA 181 08/21-12/12
Brown, C. F 02:40 PM-04:45 PM PA 181 08/21-12/12

Water Technology

WATR 150 Introduction to Water Systems 3 Units
Strongly recommended: ENGL 099 if required by English placement or if required by English level.
A basic course in water distribution and treatment covering water quality control practices, water sources, public health aspects of water regulations, supply, water treatment arithmetic, chemical treatment, filtration, corrosion, disinfection, tastes and odors in water, water system operation and maintenance, valves, pipes, pumps, and meters. The material covered in this course will be helpful to those preparing for the D-1 and D-2 Water Distribution Operator's Certificate examinations and the T-1 Water Treatment Operator's Certificate examination given by the State of California. 54 lecture hours. CSU UC
20972 Gramling, G. M 06:50 PM-10:00 PM PC 314 08/21-12/12
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<td>Water Conservation</td>
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**WATR 151  Water Resources and Distribution I**

Strongly recommended: WATR 150 and MATH 030.

A course designed for water distribution systems operators. This course continues WATR 150. Topics include: water production, types of reservoirs, water lines, pumps, water chemistry, water treatment, arithmetic, chemical treatment, appurtenances, method of installation, repair of facilities, back up theory, and administrative functions behind the distribution system. This course prepares the student for the D2 and D3 Water Distribution Operator's examinations. 54 lecture hours.

20949 Gramling, G.  R 06:50 PM-10:00 PM  PC 314 08/21-12/12

**WATR 157  Water Treatment II**

Strongly recommended: WATR 156.

A course covering water resources, water quality, unit operations of advanced water treatment systems, public health, water chemistry and microbiology, and fluoridation. Prepares students for T3, T4, and T5 Water Treatment Operator's Certificate examinations required by the Department of Public Health. 54 hours lecture.

20950 Sherman, S.  T 06:30 PM-09:40 PM  PC 314 08/21-12/12

**WATR 162  Water Conservation**

This class provides an overview and technical information on the role of the water conservation coordinator in the public water supply industry. Topics include: water supply and cycle, structure and operations of utilities, regulatory agencies, best management practices, water conservation programs and technologies. This class will help the student prepare for the AWWA grade one Water Conservation Practitioner Certification. 54 lecture hours.

21626 Martinez, J.  W 06:30 PM-09:40 PM  PC 314 08/21-12/12