Accounting

ACCT 101  Financial Accounting  4 Units
Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.
This course is 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. This course may be taken two times.
36 lecture hours, 72 lab hours. CSU UC
40301  Hillman, M.  MTWR 08:00 AM-12:15 PM  AC 116  06/22-07/30

ART 110  Introduction to Visual Arts  3 Units
Introduction to Visual Arts
DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
This introductory computer art course is designed for people interested in creating art using various mediums. This course may be taken two times.
72 lecture hours. CSU UC
40100  Smolin, R.  HRS-ARRG 06/22-07/30

ART 103  Art History and Appreciation - Renaissance to Rococo  3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course covers the history of western art from the early Renaissance through the Rococo period. This course is concerned with both the history of art and the fundamentals of the appreciation of art.
54 lecture hours. CSU UC
40147  Holmes, A.  TWR 09:00 AM-12:00 PM  AC 103  06/22-07/30

ART 111  Beginning Drawing  3 Units
Beginning Drawing
Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.
This course is 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. This course may be taken two times.
36 lecture hours, 72 lab hours. CSU UC
40310  Hillman, M.  MTWR 12:40 PM-04:55 PM  AC 113  06/22-07/30

ART 101  Beginning Ceramics  3 Units
Beginning Ceramics
Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.
This course is 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. This course may be taken two times.
72 lecture hours. CSU UC
40657  Hillman, M.  MTWR 05:30 PM-09:45 PM  AC 117  06/22-07/30

ART 140  Beginning Drawing  3 Units
Beginning Drawing
Strongly recommended: ACCT 100 or high school bookkeeping, or related job experience.
This course is 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. This course may be taken two times.
72 lecture hours. CSU UC
40310  Hillman, M.  MTWR 12:40 PM-04:55 PM  AC 113  06/22-07/30

ART 149  Studio Problems in Ceramics  1 Units
Prerequisite: ART 140.
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 techniques, and the development of personal expression.
36 lecture hours, 72 lab hours. CSU UC
40658  Hillman, M.  MTWR 05:30 PM-06:45 PM  AC 118  06/22-07/30

ART 150  Computer Art Basics  3 Units
Computer Art Basics
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. PC computers with the Windows operating system, scanners, and digital cameras are also explored in this course. This course may be taken three times.
36 lecture hours, 72 lab hours. CSU UC
40177  Jackson, M.  MTWR 08:00 AM-12:15 PM  AC 101  06/22-07/30

Astronomy

ESCI 115  Planetary Astronomy  3 Units
Planetary Astronomy
Strongly recommended: MATH 130. Also ACCT 100 or high school bookkeeping, or related job experience.
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, meteoroids, and the origin of the solar system.
54 lecture hours. CSU UC
40262  Livio, P.  TWR 11:00 AM-01:50 PM  MA 227  06/22-07/30

Automotive Tech-Auto, Lt Truck

Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626)
### Schedule of Credit Classes - Summer 2009

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<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
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<td>AUTO 101</td>
<td><strong>Fundamentals of Automotive Service, Diagnosis and Repair</strong></td>
<td>5 Units</td>
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<td>AUTO 166</td>
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<td>AUTO 167</td>
<td><strong>Automotive HVAC Service, Diagnosis &amp; Repair</strong></td>
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<td>BIOL 104</td>
<td><strong>Biology: Contemporary Topics</strong></td>
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<td>BIOL 105</td>
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<td>BIOL 200</td>
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### Biology

**BIOL 104: Contemporary Topics**

- **Prerequisite:** AUTO 101.
- **Strongly recommended:** READ 099 if required by reading placement exam or if required by reading level.
- A course designed to teach engine design and analysis of cylinder heads, cylinder blocks, crankshafts, piston and rings, connecting rods, camshaft, valve train systems.
- A course will also cover the design and tuning of intake and exhaust systems, turbocharging and supercharging and the use of basic and advanced engine design formulas.
- 108 lecture hours.

**BIOL 200: Human Anatomy**

- **Prerequisite:** BIOL 105.
- 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.

**BUS 130: Introduction to Business**

- 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.

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Chemistry

CHEM 103 College Chemistry 5 Units
Prequisite: Completion of MATH 130 with min. grade of C.
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. CSU UC

CHEM 110 Beginning General Chemistry 5 Units
Prequisite: Completion of MATH 150 with minimum grade of C or concurrent enrollment. Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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

CHEM 111 General Chemistry 5 Units
Prequisite: 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

Computer Sci & Info Systems

CSIS 107 Fundamentals of Information Technology 4 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Strongly recommended: 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

CSIS 130 Microcomputers Applications I 4 Units
Strongly recommended: CSIS 105 or 107. Also READ 099 if required by reading placement exam or if required by reading 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, and personal information management. Prepares students to take the Microsoft Office User Specialist certification exams. 72 lecture hours. CSU UC

Cosmetology

COS 140 Introduction to Cosmetology 12 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This is the introductory course for students majoring in cosmetology. The course includes the exploration of a variety of subjects including sculpting, styling, facials, manicuring, hair coloring, chemical texturizing cosmetology. 162 lecture hours, 162 lab hours.

Counseling

COUN 145 Career/Life Planning 3 Units
Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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. Maximum credit allowed for Career Education 143, 145, 150, and 155 is three units. 54 lecture hours. CSU

Child Development

CHLD 130 Infant Development and Group Care 3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course focuses on the development of the infant and on the dynamics of infant group care. Methods of providing care designed for physical, emotional, social, and intellectual development will be stressed. The health and safety requirements of the state and county are included. 54 lecture hours. CSU
## Dance

### COUN 156 College Planning Today for Tomorrow  1 Units

- **Instructor:** Rose, J.
- **Days:** MW
- **Time:** 10:15 AM-12:55 PM
- **Room:** PS 107

**Description:** Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. A course in helping students transition to college life. Students will receive practical information about college services, effective study habits, and individual educational planning. Emphasis is on college and career decisions as catalysts for growth. 18 lecture hours. CSU

### DANC 159 Beginning Tap  1 Units

- **Instructor:** Shear, M.
- **Days:** MW
- **Time:** 04:00 PM-07:20 PM
- **Room:** VT 323

**Description:** Designed to instruct students in the dance technique of beginning tap. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU UC

### DANC 160 Strategies for College Success  3 Units

- **Instructor:** Rose, J.
- **Days:** TR
- **Time:** 10:15 AM-12:55 PM
- **Room:** PS 107

**Description:** Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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 college 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

### DANC 259 Intermediate Tap I  1 Units

- **Instructor:** Shear, M.
- **Days:** TR
- **Time:** 07:30 PM-10:50 PM
- **Room:** VT 323

**Description:** 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. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU UC

### DANC 260 Intermediate Jazz Dance I  1 Units

- **Instructor:** McLeod, J.
- **Days:** MTWRF
- **Time:** 08:00 AM-10:05 AM
- **Room:** LB 105

**Description:** Designed to instruct in the intermediate dance technique of classical ballet. A more in-depth study of the positions and combinations of ballet. This course may be taken four times. 18 lecture hours, 36 lab hours. CSU UC

### ECON 102 Principles of Economics  3 Units

- **Instructor:** Ghosh, R.
- **Days:** MTWRF
- **Time:** 08:00 AM-10:05 AM
- **Room:** PC 306

**Description:** Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level. An introductory course that focuses on aggregate economic analysis. Topics include market systems; economic cycles including recession, unemployment and inflation; national income accounts; macroeconomic equilibrium; money and financial institutions; monetary and fiscal policy; and international trade and finance. 54 lecture hours. CSU UC

### DRAFT 101 Computer Aided Design and Mechanical Drawing  3 Units

- **Instructor:** Styles, C.
- **Days:** MTWRF
- **Time:** 10:15 AM-12:20 PM
- **Room:** LB 102

**Description:** This course is a guaranteed interview with a solar installer.

### ECON 101 Principles of Economics  3 Units

- **Instructor:** Ghosh, R.
- **Days:** MTWRF
- **Time:** 08:00 AM-10:05 AM
- **Room:** PC 306

**Description:** Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level. An introductory course that focuses on aggregate economic analysis. Topics include market systems; economic cycles including recession, unemployment and inflation; national income accounts; macroeconomic equilibrium; money and financial institutions; monetary and fiscal policy; and international trade and finance. 54 lecture hours. CSU UC

### ECON 102 Principles of Economics  3 Units

- **Instructor:** Styles, C.
- **Days:** MTWRF
- **Time:** 10:15 AM-12:20 PM
- **Room:** LB 102

**Description:** Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level. Microeconomics, an introductory course that focuses on the decision making from the viewpoint of the individual consumer, worker, and firm. Emphasis is on the price system, allocation of resources and income, supply and demand analysis, structure of the American industry, and applications to current economic policy and problems. 54 lecture hours. CSU UC

### English

- **Instructor:** Styles, C.
- **Days:** MTWRF
- **Time:** 10:15 AM-12:20 PM
- **Room:** LB 102

**Description:** Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level. Microeconomics, an introductory course that focuses on the decision making from the viewpoint of the individual consumer, worker, and firm. Emphasis is on the price system, allocation of resources and income, supply and demand analysis, structure of the American industry, and applications to current economic policy and problems. 54 lecture hours. CSU UC

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626)
ENGL 030 Writing Skills I 3 Units
Prerequisite: Placement is based on multiple assessment measures or successful completion of non-credit course work below ENGL 030.
Strongly recommended: READ 019 if required by reading placement exam or if required by reading level.
This course focuses intensively on English fundamentals including grammar, spelling, punctuation, and basic writing skills, and paragraph development. This course is designed primarily for those students preparing for ENGL 040. 54 lecture hours, 14 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ENGL 040 Writing Skills II 3 Units
Strongly recommended: READ 019 if required by reading placement exam or if required by reading level.
A review of English fundamentals including grammar, spelling, vocabulary, and standard usage with emphasis on punctuation, basic writing skills, and paragraph development. This course is designed primarily for those students preparing for ENGL 100. 54 lecture hours, 14 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ENGL 100 Fundamentals of Composition 3 Units
Prerequisite: Placement is based on multiple assessment measures or completion of ENGL 040 with min. grade of C.
An introduction to the fundamental techniques and rhetorical devices necessary to effective expository prose, with emphasis on paragraph development, outlining, organization, and revision leading to the multiple-paragraph essay. This course is designed primarily for students preparing for ENGL 101.
54 lecture hours.

ENGL 101 Reading and Composition 3 Units
Prerequisite: Placement is based on multiple assessment measures or completion of ENGL 100 with min. grade of C.
A college-level composition course emphasizing exposition, analysis, argument, and research techniques. Extensive writing practice based upon reading culturally diverse short stories and related materials. 54 lecture hours. CSU UC

ENGL 103 Composition and Critical Thinking 3 Units
Prerequisite: Completion of ENGL 101 with a min. grade of C.
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

ENGL 104 English As A Second Language

ESL 030 English Language Skills III 3 Units
Prerequisite: ESL 020.
Strongly recommended: For students enrolled in ESL Level 3 core courses.
Placement is based on multiple assessment measures or successful completion of ESL Level 2 core courses—ESL 020, 024 and ESL 026.
A course for intermediate English language students providing additional practice in the four language skills—listening, speaking, reading and writing. Emphasis on vocabulary building, developing fluency in speaking, increasing written sentence complexity and developing reading skills. One of three core courses in ESL Level 3 54 lecture hours. 9 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 032 Pronunciation and Conversation III 2 Units
Prerequisite: ESL 022.
A course for intermediate students in comprehension and communication of spoken English. Emphasis is on building confidence in oral expression, refining pronunciation, and reducing accent. 36 lecture hours.
NOTE: THE UNITS FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

ESL 034 Vocabulary/Reading III 2 Units
Prerequisite: Placement is based on multiple assessment measures or successful completion of ESL 024.
A vocabulary and reading course for intermediate ESL students. The course is designed to help students further expand vocabulary and reading skills. Emphasis is on building confidence in oral expression, refining pronunciation, and reducing accent. 36 lecture hours.

ESL 036 Grammar Fundamentals III 2 Units
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. 36 lecture hours.

ESL 040 English Language Skills IV 3 Units
Prerequisite: ESL 030 or placement in ESL Level 4 based on multiple assessment measures.
Strongly recommended: For students enrolled in ESL level 4 core courses.
This course parallels ENGL 040, preparing high-intermediate ESL students for ESL 100. It includes grammar, vocabulary, usage, and the writing skills of sentence and paragraph development. It also previews essay development and writing. One of three core courses in ESL Level 4. 54 lecture hours. 9 lab hours arranged.
NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.
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**Health Sciences**

**HEAL 100 Emergency Medical Services Career Preparation**

- **3 Units**
- Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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 knowledge and skills necessary for American Heart Association (AHA) cardiopulmonary resuscitation (CPR) certification and first aid certificate for healthcare providers. Successful completion of this course is required for enrollment into the Emergency Medical Technician Basic Program. This course may be taken two times. 36 lecture hours, 54 lab hours.

- **Health Services**
  - 40679 Hadsell, C. HRS-ARRG 06/22-08/13
  - 40680 Hadsell, C. HRS-ARRG 06/22-08/13

**HEAL 161 Emergency Medical Technician - Basic**

- **7 Units**
- Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
- The entry-level course in emergency training for those involved in Emergency Medical Services. 108 lecture hours, 54 lab hours.

- **Health Sciences**
  - 40679 Hadsell, C. HRS-ARRG 06/22-08/13
  - 40680 Hadsell, C. HRS-ARRG 06/22-08/13

**Heating & Air Conditioning**

**HEAT 184 Electricity for Heating and Air Conditioning**

- **2 Units**
- Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
- A course in electricity covering the functions and operations of electric motors and controls used in mechanical systems. 36 lecture hours, 18 lab hours.

- **History**
  - 40662 Fallat, P. TWR 06:30 PM-09:30 PM PC 306 06/22-07/30
  - Students in this class also take DRAF 101; successful completers have a guaranteed interview with a solar installer.

- **HEAT 185 Heating and Air Conditioning - II**
  - 40679 Hadsell, C. MW 08:00 AM-02:30 PM TC 230 06/22-08/13
  - 40680 Hadsell, C. MW 02:35 PM-06:45 PM TC 230 06/22-08/13

**History**

**HIST 103 History of World Civilization up to 1500**

- **3 Units**
- C.E.
- Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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

- **HIST 104 History of World Civilization since 1500**
  - 40150 Lubesich, S. HRS-ARRG 06/22-07/30
  - DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
  - 40400 Zeman, W. TWR 06:00 PM-08:50 PM LB 303 06/22-07/30

**Political and Social History of the United States**

**HIST 107 Political and Social History of the United States**

- **3 Units**
- Strongly recommended: ENGL 100. 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

- **HIST 108 American History since 1876**
  - 40058 Kom, D. TWR 01:00 PM-03:00 PM HH 754 06/22-07/30
  - 40095 Lewis, D. MTWR 08:00 AM-10:05 AM LB 302 06/22-07/30
  - 40155 Nelson, S. HRS-ARRG 06/22-07/30
  - DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
  - 40671 Soremekun, F. TWR 06:00 PM-08:50 PM LB 104 06/22-07/30
**Math**

**MATH 017 Basic Math and Study Skills**  
This course focuses on building whole number arithmetic skills to prepare students for MATH 020. This course covers arithmetic operations on whole numbers, a brief introduction to fractions and decimals, and incorporates study skills for success in mathematics courses. 54 lecture hours.

- CRN: 40001  
  Instructor: Zhuang, Y.  
  Time: MTWR 10:15 AM-12:20 PM  
  Room: MA 230  
  Days: 06/22-07/30

**MATH 020 Arithmetic Fundamentals**  
Prerequisite: Placement is based on multiple on multiple assessment measures or completion of MATH 017.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
The four basic operations of arithmetic on whole numbers, fractions, and decimals, with applications. Ratios, proportions, and percents with applications. 54 lecture hours.

- CRN: 40004  
  Instructor: Low, J.  
  Time: MTWR 08:00 AM-10:05 AM  
  Room: MA 230  
  Days: 06/22-07/30
- CRN: 40007  
  Instructor: Gutierrez, J.  
  Time: MTWR 01:00 PM-03:05 PM  
  Room: MA 230  
  Days: 06/22-07/30

**MATH 029 Pre-Algebra**  
Prerequisite: Placement is based on multiple assessment measures or successful completion of MATH 020.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
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. 54 lecture hours, 36 lab hours.

- CRN: 40012  
  Instructor: Trad, M.  
  Time: MTWR 08:00 AM-11:30 AM  
  Room: MA 109  
  Days: 06/22-07/30
- CRN: 40278  
  Instructor: Odrich, S.  
  Time: MTWR 01:00 PM-04:30 PM  
  Room: MA 206  
  Days: 06/22-07/30

**MATH 130 Intermediate Algebra**  
Prerequisite: MATH 020 with min. grade of C.  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.  
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.

- CRN: 40020  
  Instructor: Paek, H.  
  Time: MTWR 01:00 PM-04:30 PM  
  Room: MA 125  
  Days: 06/22-07/30
- CRN: 40024  
  Instructor: Gong, C.  
  Time: MTWR 08:00 AM-11:30 AM  
  Room: MA 108  
  Days: 06/22-07/30
- CRN: 40639  
  Instructor: Medrano, E.  
  Time: MTWR 08:00 AM-11:30 AM  
  Room: MA 206  
  Days: 06/22-08/13

**MATH 150 Plane Trigonometry**  
Prerequisite: MATH 130.  
Real number properties, first degree equations and inequalities, absolute value equations and inequalities, applications, polynomials, the binomial theorem, factoring, rational expressions, exponents, radicals, complex numbers, quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, 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.

- CRN: 40028  
  Instructor: Odrich, S.  
  Time: MTWR 06:00 PM-09:30 PM  
  Room: MA 109  
  Days: 06/22-07/30
- CRN: 40029  
  Instructor: Cummins, S.  
  Time: MTWR 08:00 AM-11:30 AM  
  Room: MA 223  
  Days: 06/22-07/30
- CRN: 40279  
  Instructor: Zhuang, Y.  
  Time: MTWR 01:00 PM-04:35 PM  
  Room: MA 207  
  Days: 06/22-07/30

**MATH 165 Introductory Statistics**  
Prerequisite: MATH 149 or MATH 150.  
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. CSU UC.

- CRN: 40033  
  Instructor: Swan, A.  
  Time: MTWR 01:00 PM-04:00 PM  
  Room: MA 109  
  Days: 06/22-07/30
- CRN: 40034  
  Instructor: Swan, A.  
  Time: MTWR 08:00 AM-11:00 AM  
  Room: MA 206  
  Days: 06/22-07/30
Music - Commercial

MUS 209 Musical Theatre Academy Production
Prerequisite: Audition.
An in depth survey of the skills necessary for the performer in a live musical theatre production. Emphasis on the audition process, script analysis, role preparation, theatre and rehearsal etiquette and rehearsal technique culminating in a live, full-length fully produced musical. This course may be taken four times. 36 lecture hours, 126 lab hours. CSU UC

40307 Shrope, D. MTWRF 09:00 AM-12:40 PM PA 133 06/22-07/25
+ 66 TOTAL HRS ARRG
Audition Required May 16, 2009 at 9:00 a.m. in VT 323

Music - History and Theory

MUS 113 History of Rock 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

40183 Eisel, G. MW 06:00 PM-10:15 PM PA 133 06/22-07/30

MUS 114 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 majors. Required for music majors. 54 lecture hours.
CSU UC

40184 Langford, W. HRS-ARRG 06/22-07/30
DISTANCE EDUCATION CLASS after registering go to www.citruscollege.edu/de for information on a Mandatory Orientation.

Music - Instrumental

MUS 222 Summer Instrumental Music Academy
3 Units
The Summer Instrumental Music Academy provides the instrumental musician with the necessary fundamentals of music reading ability, historical framework and basic technique on the student’s chosen instrument. The course culminates with a summer concert, which provides students with the training and experience to play successfully in a variety of concert settings. This course may be taken four times. 18 lecture hours, 108 lab hours.
CSU UC

40320 Hoehne, W. MTWR 08:30 AM-11:45 AM PA 131 06/22-07/30
40320 Hoehne, W. MTWR 11:50 AM-12:50 PM VT 320 06/22-07/30
40320 Hoehne, W. MTWR 01:30 PM-03:35 PM PA 154 07/06-07/30

Music - Vocal

MUS 222 Women’s Tour Ensemble
4 Units
Prerequisite: Audition. This course prepares the student for a unique ensemble experience through classroom instruction, laboratory training, and performance. Emphasis on solo as well as ensemble study and performance of vocal compositions combined with an in-depth travel experience. Public performance required. This course may be taken four times. 54 lecture hours, 108 lab hours.
CSU UC

40318 Milliken, K. TWR 09:00 AM-02:50 PM VT 320 06/22-07/30
+ 18 TOTAL HRS ARRG
Performance Tour to Palm Springs.

Nursing - Registered

RNRS 200 Role Transitions: LVN to RN
3 Units
Prerequisites: Current licensure in California as a Licensed Vocational Nurse; BIO 200, BIO 201 and BIO 220 or equivalents. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.
This course is designed to assist the LVN in transitioning from the LVN role to the expected role of the ADN student. Course content focuses on educational preparation for nursing, competencies expected of the graduate, critical thinking, communication, physical assessment, legal/ethical concerns and study skills. The on-campus lab provides opportunity for students to validate nursing skill and practice physical assessment skills. 36 lecture hours, 54 lab hours.

40684 Santiago, L. MT 08:00 AM-11:00 AM TC 229 06/22-07/30
Lecture and Lab sections required.
40684 Santiago, L. MT 12:00 PM-04:15 PM TC 229 06/22-07/28
Lab section only. Lecture section also required.
40685 Allahbachayoo, S. MT 12:00 PM-04:15 PM TC 229 06/22-07/28
Lab section only. Lecture section also required.

Nursing - Vocational
**Office Tech & Computer Apps**

**OFF 120 Excel Spreadsheet**

3 Units

An introduction to Excel worksheets and workbooks. Includes formatting, calculating sums, formulas, charts, enhancing the worksheet, and making decisions using the IF function, completing financial functions, data lists, and large workbooks and using templates. This course may be taken two times. 36 lecture hours. CSU

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| 4002  | James, R.  | HRS-ARRG | 06/22-08/13 | Lecture section only. Lab section also required.
| 40064 | Boxley, J. | HRS-ARRG | 06/22-07/30 | Lecture section only. Lab section also required.

**Philosophy**

**PHIL 101 Great Religions of the World**

3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The historical development, principal ideas and contributions of the world's religions. 54 lecture hours. CSU UC

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<td>40097</td>
<td>Saldana, R.</td>
<td>MTWR</td>
<td>06:00 AM-10:05 AM</td>
<td>LB 101</td>
<td>06/22-07/30</td>
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**PHIL 106 Introduction to Philosophy**

3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

The foundations of philosophy in terms of modes of critical thinking, significant philosophical problems, and a representative sampling of primary philosophical writings. 54 lecture hours. CSU UC

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</table>
| 40173 | Call, J.  | HRS-ARRG | 06/22-07/30 | Lecture section only. Lab section also required.

**PHIL 110 Philosophy - Logic**

3 Units

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course introducing fundamental problems and principles of formal and informal logic, featuring proofs of validity, deductive and inductive reasoning, and detection and analysis of fallacies. 54 lecture hours. CSU UC

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<td>40068</td>
<td>Saldana, R.</td>
<td>TWR</td>
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<td>LB 101</td>
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**Physical Education-Activities**

**PE 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. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU UC

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</table>
| 40652 | Shaw, N.  | HRS-ARRG | 06/22-07/30 | Lecture section only. Lab section also required.
| 40653 | Shaw, N.  | HRS-ARRG | 06/22-07/30 | Lecture section only. Lab section also required.

**Physical Education-Fitness**

**PE 170 Fitness For Life**

3 Units

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626)
**Physical Education-Varsity Ath**

**PE 207  Off-Season Men's Varsity Athletics  .5 Units**

Must be a college varsity athlete,college varsity propsect or with coach's permission.
This course provides intermediate and advanced instruction and practice in the skills and strategies of varsity athletics. 45 lab hours or 90 lab hours.

CSU UC

**PE 145  Strength Training, Balance, and Agility  1 Units**

Strongly recommended: READ 099 if required by reading placement exam or if required by 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. This course may be taken four times. 18 lecture hours, 18 lab hours. CSU UC

40080 Morrison, S. MTWR 03:00 PM-04:15 PM PE FLDA 06/22-07/30
Recommended for Varsity Athletes: Football
OR 36 TOTAL HRS ARRG

40056 Noonan, B. MTWR 01:00 PM-02:15 PM PE FLDA 06/22-07/30
Recommended for Varsity Athletes: Football
OR 36 TOTAL HRS ARRG

40065 Evans, C. MTWR 01:00 PM-02:15 PM PE FLDA 06/22-07/30
Recommended for Varsity Athletes: Football
OR 36 TOTAL HRS ARRG

40068 Tracey, T. MTWR 05:00 PM-06:15 PM PE FLDA 06/22-07/30
Recommended for Varsity Athletes: Men's and Women's Soccer
OR 36 TOTAL HRS ARRG

**PE 148  Adapted Aquatic Exercises  1 Units**

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. This course may be taken unlimited times with instructors permission. 18 lecture hours, 36 lab hours. CSU UC

40248 Wurst, C. MW 10:30 AM-12:30 PM AQ POOL 06/22-07/30
Wurst, C. TR 10:30 AM-12:35 PM 06/22-07/30

**PE 151  Body Conditioning  1 Units**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course will include general conditioning exercises, aerobic exercises, and exercises to develop flexibility and strength. This course may be taken four times with the objective of increasing and expanding the student's proficiencies and attitudes toward body conditioning through a supervised exercise program. 18 lecture hours, 18 lab hours. CSU UC

40238 Gunstream, M. MTWR 08:30 AM-09:45 AM AP 110 06/22-07/30

**PE 156  Physical Conditioning for Intercollegiate Sports  1 Units**

This course is designed to provide an out-of-season physical conditioning program for the student interested in intercollegiate athletics. This course may be taken four times. 9 hours lecture, 27 hours lab or 18 hours lecture, 54 hours lab. CSU UC

40273 Greer, M. MTWR 03:00 PM-04:05 PM 06/22-08/13
Recommended for Varsity Athletes: Men's and Women's Cross Country / Volleyball
OR 36 HRS ARRG

**PE 159  Cardiovascular Training  1 Units**

This course will offer a non-competitive, flexible, scheduled 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. This course may be taken four times. 9 hours lecture, 27 hours lab. CSU UC

40330 Gunstream, M. MW 10:00 AM-11:15 AM AP 109 06/22-07/30
Gunstream, M. TR 10:00 AM-11:15 AM 06/22-07/30
During Summer this class is not arranged hours - student must meet at scheduled class time.

**Physics**

**PHYS 110  Introduction to College Physics  4 Units**

Strongly recommended: MATH 130. Also, READ 099 if required by reading placement exam or if required by reading level. A general physics course for non-majors that explores fundamental principles of the physical world; kinematics, fluid dynamics, thermodynamics, electricity, electromagnetism, sound propagation, and optics. 54 lecture hours. 72 lab hours. CSU UC

40266 Scott, C. MTWR 08:00 AM-09:25 AM PS 107 06/22-08/13
Lecture section only. Lab section also required.

40268 Scott, C. TR 09:35 AM-10:50 AM PS 125 06/22-08/13
Lab section only. Lecture section also required.

**Political Science**

**POLI 103  Government of the United States  3 Units**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading 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

40669 Ross, G. MTWR 08:00 AM-10:05 AM LB 303 06/22-07/30

40070 Ross, G. TWR 01:00 PM-03:50 PM LB 303 06/22-07/30

40113 Peters, G. TWR 06:00 PM-08:50 PM LB 301 06/22-07/30

40170 Peters, G. HRS-ARRG DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

**Psychology**

**PSY 101  Introduction to Psychology  3 Units**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. An introduction to the field of psychology through involved learning, motivation, intelligence, and personality. 54 lecture hours. CSU UC

40049 Brown, R. TWR 06:00 PM-08:50 PM LB 310 06/22-07/30

40055 Brown, R. TWR 01:00 PM-03:50 PM LB 310 06/22-07/30

40056 Gultman, K. MTWR 08:00 AM-10:05 AM HH 754 06/22-07/30

40165 Kim, A. HRS-ARRG DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

40169 Shannon, J. HRS-ARRG DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

40674 Kim, A. MTWR 10:15 AM-12:20 PM P3 105 06/22-07/30

**PSY 206  Child Growth and Development  3 Units**

Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Students will critically examine theories of child development in the physical, intellectual and social-emotional areas as they pertain to the various ages and stages in a child's life from the prenatal development through adolescence. Practices in caregiving, teaching, and parenting that derive from diverse cultural and theoretical perspectives will be analyzed. Students will learn to observe and assess children's development and gain insight into the impact of culture on the process of socialization. 54 lecture hours. CSU UC

40050 Gregg, J. TWR 11:00 AM-01:50 PM LB 107 06/22-07/30
### Sociology

**SOC 114  Marriage, Family, and Intimate Relations**  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A consideration of the sociological and psychological factors which influence present day marriages. Course includes seminar discussions oriented toward understanding these influences as they relate to the individual. 54 lecture hours. CSU

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<tr>
<td>40151</td>
<td>Walz, S.</td>
<td>TWR</td>
<td>01:00 PM-03:50 PM</td>
<td>LB 306</td>
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</tbody>
</table>

### Reading

**READ 019  Literacy Skills**  
3 Units  
This course is designed for students who need a non-competitive environment to develop basic literacy skills including decoding, vocabulary acquisition, and literal comprehension. Offered for Pass/No Pass grading only. This course may be taken two times. 54 lecture hours.

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<tr>
<td>40040</td>
<td>Loya, H.</td>
<td>MTWR</td>
<td>08:00 AM-10:05 AM</td>
<td>LL 102</td>
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</table>

**READ 040  Basic Reading Skills**  
3 Units  
Prerequisite: Placement is based on multiple measure assessment or completion of READ 019 with min. grade of C. Development of basic reading strategies which focus on word analysis, vocabulary development, ability to respond orally and in writing to materials read independently from a variety of textual complexities, patterns, and forms including reference, informational, persuasive and literary genres. Designed primarily for students preparing for READ 099. This course may be taken three times. 54 lecture hours.  

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<tr>
<td>40127</td>
<td>Gunderson, M.</td>
<td>TWR</td>
<td>01:00 PM-03:50 PM</td>
<td>LL 102</td>
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<tr>
<td>40129</td>
<td>Gunderson, M.</td>
<td>MTWR</td>
<td>10:15 AM-12:20 PM</td>
<td>LL 102</td>
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**READ 099  Reading Skills**  
3 Units  
Prerequisites: READ 040 or ESL 054 or placement based on multiple assessment measures.

An introduction to fundamental techniques of college reading designed to develop student’s literal and inferential comprehension while extending critical reading/thinking skills. This course meets the graduation reading competency requirement. 54 lecture hours.

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<tr>
<td>40071</td>
<td>Van Citters, B.</td>
<td>MTWR</td>
<td>10:15 AM-12:20 PM</td>
<td>LL 103</td>
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<tr>
<td>40073</td>
<td>Van Citters, B.</td>
<td>TWR</td>
<td>01:00 PM-03:50 PM</td>
<td>LL 103</td>
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<tr>
<td>40074</td>
<td>Lawrence, P.</td>
<td>MTWR</td>
<td>10:15 AM-12:20 PM</td>
<td>LB 309</td>
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### Spanish

**SPAN 101  Spanish I**  
5 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

A course in elementary Spanish grammar, vocabulary, and pronunciation which focuses on understanding, speaking, reading, and writing (including spelling) simple Spanish and serves as an introduction to the geography, history, and culture of the Spanish-speaking world. 90 lecture hours, 18 lab hours arranged.

CSU UC

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<tr>
<td>40065</td>
<td>Alfaz, A.</td>
<td>MTWR</td>
<td>10:15 AM-01:50 PM</td>
<td>LB 106</td>
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<tr>
<td>40078</td>
<td>Garcia, V.</td>
<td>MTWR</td>
<td>08:00 AM-11:35 AM</td>
<td>DHS</td>
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<tr>
<td>40122</td>
<td>Garate, E.</td>
<td>MTWR</td>
<td>08:00 AM-11:35 AM</td>
<td>TC 127</td>
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**SPAN 102  Spanish II**  
5 Units  
Prerequisite: Completion of SPAN 101 with min. grade of C or two years of high school Spanish.

A further study of elementary Spanish grammar and vocabulary which develops understanding, speaking, reading and writing skills. Includes additional study of the cultural heritage of Spain and Latin America. 90 lecture hours, 18 lab hours arranged.

CSU UC

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<tr>
<td>40124</td>
<td>McGarry, A.</td>
<td>MTWR</td>
<td>10:15 AM-01:50 PM</td>
<td>LB 108</td>
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</tbody>
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### Speech

**SPCH 100  Interpersonal Communication**  
3 Units  
Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.

Introduction to interpersonal communication: verbal and non-verbal face-to-face interactions; understanding messages sent and received; awareness and resolutions of communication barriers. 54 lecture hours. CSU

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<tr>
<td>40041</td>
<td>Fincher, J.</td>
<td>TWR</td>
<td>01:00 PM-03:50 PM</td>
<td>P1 104</td>
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<tr>
<td>40111</td>
<td>Fincher, J.</td>
<td>MTWR</td>
<td>08:00 AM-10:05 AM</td>
<td>P1 104</td>
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<td>CRN</td>
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<tr>
<td>SPCH 101 3 Units Public Address</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>An introductory course in speaking skills, including the selection, preparation, and delivery of speeches for various audiences and situations. The goal will be the achievement of ethical, purposeful, and effective public speaking. 54 lecture hours. CSU UC</td>
<td>40044</td>
<td>Anson, M.</td>
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<td>THEA 125 Technical Production Laboratory</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>A laboratory in the technical production of stage scenery, lighting, sound, props, costume or makeup. This course may be taken four times. 18 lecture hours, 90 lab hours arranged. CSU UC</td>
<td>40324</td>
<td>Volonte, D.</td>
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<td>Theatre Arts</td>
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<td>THEA 160 Computer Aided Design for Theatre</td>
<td>Strongly recommended: Successful completion of THEA 120 and 130. Also READ 099 if required by reading placement exam or if required by reading level.</td>
<td>Entertainment design and technical production with an emphasis on the computer as a design and drafting tool. Applications include Vectorworks and Sketch-up. This course may be taken three times. 54 lecture hours, 54 lab hours. CSU</td>
<td>40325</td>
<td>Volonte, D.</td>
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<td>Water Technology</td>
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<td>WATR 150 Introduction to Water Systems</td>
<td>Strongly recommended: READ 099 if required by reading placement exam or if required by reading level.</td>
<td>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.</td>
<td>40876</td>
<td>Vagnozzi, J.</td>
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<td>WATR 155 Water Distribution Operator Exam Preparation</td>
<td>Strongly recommended: Successful completion of WATR 150 Student Learning Outcomes or possession of a D-1 Distribution Operation Certification</td>
<td>A course in drinking water distribution designed as a review for water distribution operators preparing to take the California Department of Health Services D2 or D3 examinations. 18 lecture hours.</td>
<td>40542</td>
<td>Glancy, J.</td>
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Register online at citruscollege.edu/ar WingSpan Registration Help Desk (626) 914-8833 Admissions and Records office (626) 914-8855