### Schedule of Credit Classes - Fall 2013

#### Chemistry

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
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<tr>
<td>20124</td>
<td>Farnum, M.</td>
<td>M</td>
<td>05:00 PM-09:15 PM</td>
<td>PS 222</td>
<td>08/23-12/14</td>
<td>20130</td>
<td>Farahani, B.</td>
<td>T</td>
<td>02:00 PM-06:15 PM</td>
<td>LH 103</td>
<td>08/23-12/14</td>
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<td>DISTANCE EDUCATION HYBRID CLASS After registering go to <a href="http://www.citruscollege.edu/de">www.citruscollege.edu/de</a>. Mandatory lab meets on campus. Students required to take exams on campus.</td>
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**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. CSU UC

20124 Farnum, M. M 05:00 PM-09:15 PM PS 222 08/23-12/14

20130 Farahani, B. T 02:00 PM-06:15 PM LH 103 08/23-12/14

20121 Ryba, D. F 08:30 AM-12:45 PM PS 222 08/23-12/14

**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. CSU UC

20173 Farahani, B. M 05:00 PM-09:15 PM PS 113 08/23-12/14

20174 Farahani, B. W 05:00 PM-09:15 PM PS 203 08/23-12/14

**CHEM 110 Beginning General Chemistry**

5 Units

Prerequisite: MATH 150 or concurrent enrollment.

Strongly recommended: ENGL 099 or READ 099 if required by English placement 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

20249 Miles, T. MW 11:30 AM-12:55 PM PS 113 08/23-12/14

20269 Johnson, S. MW 07:35 AM-11:10 AM PS 222 08/23-12/14

20281 Miles, T. MW 01:10 PM-04:45 PM PS 222 08/23-12/14

**CHEM 111 General Chemistry**

5 Units

Prerequisite: 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

20286 Entus, R. TR 11:30 AM-12:55 PM LH 103 08/23-12/14

20324 Smyth, N. TR 01:10 PM-04:45 PM PS 211 08/23-12/14

**CHEM 210 Organic Chemistry**

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 08/23-12/14

20665 Farahani, B. F 08:10 AM-11:20 AM PS 211 08/23-12/14

**CHEM 211L Organic Chemistry Lab**

1 Units

Prerequisite: CHEM 210 or Corequisite: CHEM 210.

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

20880 Miles, T. MW 07:35 AM-11:10 AM LHR 103 08/23-12/14

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