BUS R124D—Leadership in Supervision ½ unit
Lecture hours as required by unit formula.
This course is designed to provide training in leadership for supervisors. Topics include learning to identify essential leadership qualities for effective management, defining the art of effective leadership, knowing the difference between management and leadership, effective communication styles, listening and speaking techniques of an effective leader and manager, and how to enable others to increase their effectiveness as leaders in the workplace. Field trips may be required. (2)
Transfer credit: CSU

BUS R124E—Team Building and Group Dynamics ½ unit
Lecture hours as required by unit formula.
This course is designed to provide training in team building and group dynamics for supervisors. Topics include: characteristics of high performance teams; understanding how teams work together; common problems teams encounter and how to solve them; team player styles and diversity; stages of team growth; tips and techniques for team building in the workplace; long-term benefits of teamwork and collaboration; assessing and solving common team problems; and team player action plans. Field trips may be required. (2)
Transfer credit: CSU

BUS R124F—Cultural Awareness in Organizations ½ unit
Lecture hours as required by unit formula.
This course is designed to provide training in cultural awareness for supervisors. Topics include stereotypes across cultures, benefits of cultural competency, assessing cultural competency; social and entertaining differences; verbal and non-verbal communication styles; and styles of agreements.
Transfer credit: CSU

BUS R125—Personal Finance 3 units
3 hours lecture weekly
This course provides an overview of financing planning and budgeting. The process of financial planning logic and underlying fundamentals that drive financial planning will be discussed. Topics include banking, borrowing, taxes, insurance, various forms of investments, credit, interest rates, time value of money, large purchases such as real estate, estate and retirement planning. Field trips may be required. (2)
Transfer credit: CSU

BUS R130—Sales Management 3 units
3 hours lecture weekly
This course provides an overview of the principles of wholesale and specialty selling, with emphasis on the techniques of selling. Areas emphasized are sales personality, sales planning, securing prospects, counseling buyers, handling objections, and learning public relations. Field trips may be required. (2)
Transfer credit: CSU

BUS R132A—Marketing 3 units
3 hours lecture weekly
Marketing from the viewpoint of the manager includes discussion on the aspects of market research, product development, promotion, advertising, channels of distribution, international and web marketing. Field trips may be required. (2)
Transfer credit: CSU

BUS R140—Business Communications 3 units
Advisory: ENGL R101, and word processing skills.
Prerequisites: BUS R104.
3 hours lecture weekly
Business communications develops effective business and professional communication in written, oral, and non-verbal modes. This course includes business correspondence, report writing, listening, collaborative communication, and oral reports. Business communications is required in the Accounting, Business Management, Marketing, Retail Management, Supervision, Computer Information Systems, Office Microcomputers, and Administrative Assistant A.S. and certificate curricula. Field trips may be required. (2)
Transfer credit: CSU

BUS R189—Topics in Business ½-3 units
Lecture and/or lab hours as required by unit formula
Specialized topics designed to inform or update interested persons in various disciplines within the field of business. Unit credit determined by length of course.
Transfer credit: CSU

BUS R198A-Z—Short Courses in Business ½-10 units
Lecture and/or lab hours as required by unit formula
Workshops in selected areas of business and information systems to meet specific needs of college or community as required or requested by persons whose needs are not met by regular course offerings.
Transfer credit: CSU

CHEMISTRY

Chemistry is the science that deals with the composition, structure, and properties of matter and with the changes matter undergoes. There are many different employment opportunities open to chemists. A chemist can work in a laboratory or research environment asking questions and testing hypotheses with experiments. Another possibility for a chemist is to work on a computer developing theories or models or to predict reactions. Some chemists do field work. Others contribute advice on chemistry for projects. Some chemists write. Some chemists teach. Others use chemistry to enter the medical field.

The chemistry program offers two associate degrees: the Associate in Arts (A.A.) and the Associate in Science (A.S.). The courses in this program can prepare students for technician-level jobs or university transfer to Bachelor of Arts or Bachelor of Science degree programs in chemistry.

To earn an associate degree with a major in chemistry, students must complete the core courses listed below, plus general education degree requirements. These major requirements help prepare students for upper-division course work for bachelor degrees and advanced degrees in chemistry offered by four-year institutions. Since the course work in chemistry is sequential, students may spend less time earning an associate degree by giving priority to the requirements for a major in chemistry. Earning an associate degree in chemistry suggests an achievement of technical skills that may be helpful in seeking immediate employment.

Universities differ slightly in requirements for the Bachelor of Arts degree in chemistry and the Bachelor of Science degree in chemistry or biochemistry. The Counseling Department or a member of the Science Department faculty can help students plan their coursework at Oxnard College so students have a smooth transition to the university of his or her choice. Students are advised to refer to the official articulation agreements on assist.org for the most current requirements of their intended transfer institution. Both the Bachelor of Arts degree in chemistry and the Bachelor of Science degree in chemistry are offered at California State University Channel Islands (CSUCI), California State University Northridge (CSUN) and the University of California Santa Barbara (UCSB). The University of California Los Angeles (UCLA) only grants the Bachelor of Science degree in chemistry. In addition, CSUCI, CSUN, UCSB and UCLA all grant Bachelor of Science degrees in biochemistry.

Career Opportunities

(Most careers require bachelor’s degrees, graduate degrees, or professional degrees)

Biochemist
Chemical Analyst
Dentist*
Geochemist
Laboratory Technician
Medical Doctor*
Pharmaceutical Sales
Pharmacist*
Research Chemist
Teaching – secondary or college level
Veterinarian*

*Students with chemistry degrees have been notably successful in these areas.
Chemistry

Associate in Arts Degree in Chemistry*

The requirements for the A.A. degree in chemistry are satisfactory completion of a minimum of 60 semester units of which 30 semester units must be the required major courses shown below. The additional minimum of 30 units is to be chosen from the general education degree requirements found in the Oxnard College catalog. Students who plan to transfer to a four-year university should consult the CSU-GE or IGETC pattern for general education. This degree is designed for students who wish to earn a Bachelor of Arts in chemistry or Bachelor of Science degree in chemistry at UCLA, UCSB or CSUN.*Submitted for State Approval.

Required Core Courses for the A.A. in Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>CHEM R120</td>
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<tr>
<td>CHEM R122</td>
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<td>MATH R120</td>
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Required Additional Courses

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<tr>
<th>Course</th>
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<tr>
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<tr>
<td>CHEM R112</td>
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<tr>
<td>Total Units</td>
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Total Required Units for A.A. in Chemistry 30

Alternate proposed plan of study for A.A. degree in Chemistry:

Year 1:

<table>
<thead>
<tr>
<th>Semester</th>
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<td>5</td>
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Year 2:

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<td></td>
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</table>

Total Required Units for A.A. Degree in Chemistry 30

Proposed plan of study for A.A. degree in Chemistry:

Associate in Science Degree in Chemistry*

The requirements for the A.S. degree in chemistry are satisfactory completion of a minimum of 60 semester units of which 40 semester units must be the required core courses shown below. The additional minimum of 20 units is to be chosen from the general education degree requirements found in the Oxnard College catalog. Students who plan to transfer to a four-year university should consult the CSU-GE or IGETC pattern for general education. This degree is designed for students who wish to earn a Bachelor of Arts or Bachelor of Science degree in chemistry at UCLA, UCSB or CSUN.*Submitted for State Approval.

Required Courses for the A.S. in Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>CHEM R120</td>
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<td>CHEM R122</td>
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<td>Total Required Units for A.S. in Chemistry</td>
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Proposed plan of study for A.S. degree in Chemistry:

Year 1: Fall Semester

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<td>CHEM R120</td>
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<td>MATH R120</td>
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Year 2: Fall Semester

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<th>Course</th>
<th>Units</th>
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<tr>
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<tr>
<td>PHYS R102</td>
<td>4</td>
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<tr>
<td>PHYS R102L</td>
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</tbody>
</table>

Program Student Learning Outcomes

Upon successful completion of the Chemistry program students will be able to:

- Students will Use logic to draw well supported conclusions from information given.
- Students will apply rules and principles to new situations.
- Students will use tables, graphs, charts, and diagrams to explain concepts or ideas.
- Students will conduct research and information gathering using a variety of sources such as: texts, tables, graphs, maps, media, personal communication, observation and electronic databases.

Chemistry Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM R104</td>
<td>5</td>
</tr>
</tbody>
</table>

Advisory: MATH R009.
4 hours lecture, 3 hours lab weekly

This course is required for nursing majors. This course provides an introduction to the concepts of chemistry in the health sciences. Topics in general chemistry will include the modern view of the atom, molecule structure, chemical formulas, and chemical reaction. Topics in organic chemistry will include hydrocarbons, alcohols, aldehydes, ketones, carboxylic acids, and amides. Topics in biochemistry will include carbohydrates, proteins, lipids, nucleic acids, and metabolism. Field trips may be required. (2) Transfer credit: UC, CSU
CHEM R110—Elementary Chemistry 5 units
Prerequisites: MATH R011 or 1 year high school algebra or equivalent.
4 hours lecture, 3 hours lab weekly
This is an introductory course in chemistry stressing basic principles of atomic and molecular structure, periodic table and states of matter, as well as quantitative techniques involved in elementary chemical calculations; there is some discussion of nuclear, organic, and biochemistry. The course serves as an introduction to lab techniques with experiments illustrating principles covered in lectures. Field trips may be required. (2)
Transfer credit: UC, CSU

CHEM R112—Elementary Organic and Biological Chemistry 5 units
Prerequisites: CHEM R110.
4 hours lecture, 3 hours lab weekly
This course is a continuation of CHEM R110. CHEM R112 includes equilibrium, oxidation-reduction, simple electrochemistry, and radioactivity. The major emphasis will be on organic chemistry. The section of organic chemistry includes: naming; structure and bonding; classification by functional groups and reactions; polymerization; optical isomerism; physical properties based on molecular polarity. Biochemistry may include carbohydrates, proteins and amino acids, fats, enzymes, DNA and RNA, and cell biochemistry. The lab illustrates the principles covered in the lecture. Field trips may be required. (2)
Transfer credit: UC, CSU

CHEM R120—General Chemistry I 5 units
Prerequisites: CHEM R110 or high school chemistry, and MATH R014.
3 hours lecture, 6 hours lab weekly
This course studies fundamental principles and theories of chemistry with special emphasis on calculations of solution chemistry, stoichiometry, chemical equilibrium and oxidation-reduction; includes discussion of quantum mechanical model of the atom, kinetic-molecular theory, and periodic table. Lab is designed to develop quantitative relationships through experiments, and to introduce inorganic preparative procedures and computer analysis of data. Field trips may be required. (2)
Transfer credit: UC, CSU

CHEM R122—General Chemistry II 5 units
Prerequisites: CHEM R120.
3 hours lecture, 6 hours lab weekly
CHEM R122 is a continuation course of CHEM R120 with emphasis on solution equilibria, kinetics, electrochemistry, radiochemistry, transition metal chemistry, and descriptive chemistry of the elements. Lab work includes qualitative analysis, thermochemistry, and kinetic studies, and further develops inorganic preparative techniques. Computers are utilized for data acquisition and interpretation. Field trips may be required. (2)
Transfer credit: UC, CSU

CHEM R130—Organic Chemistry I 5 units
Prerequisites: CHEM R120 and CHEM R122.
3 hours lecture, 6 hours lab weekly
CHEM R130 studies the fundamental principles of organic chemistry with the emphasis upon practical application of modern principles to functional groups, reactivity, physical properties, and methods of synthesis of organic compounds. The lab portion of the course will give concrete examples of lecture materials. Field trips may be required. (2)
Transfer credit: UC, CSU

CHEM R132—Organic Chemistry II 5 units
Prerequisites: CHEM R130.
3 hours lecture, 6 hours lab weekly
CHEM R132 is a continuation course of CHEM R130 with emphasis on oxygen-containing and nitrogen-containing organic substances, polymers, carbohydrates, proteins, lipids, and other biomolecules. The lab will involve multiple-step synthesis from smaller molecules to larger molecules. Field trips may be required. (2)
Transfer credit: UC, CSU

CHICANA/O STUDIES

The Chicana/o Studies Program was developed in response to the educational needs of Mexican American and Latino students attending Oxnard College. The program is designed to provide students with an awareness of the social, historical, psychological, and cultural realities of the Chicana/o in American society. An interdisciplinary program, Chicana/o Studies courses offer a Chicano/a perspective within the traditional disciplines of Sociology, History, Psychology, and Anthropology. The major mission of the Chicana/o Studies Program is to provide a curriculum of studies that will help students understand and appreciate Chicana/o culture.

Faculty

Full-Time  Part-Time
Linda Chaparro  Marianne Carrasco
Tomas Salinas  Thomas Carrasco
Xilomen Herrera  Xocoyotzin Herrera
George Rodriguez

Chicana/o Studies Courses

CHST R101—Introduction to Chicana/o Studies 3 units
3 hours lecture weekly
This is an introductory interdisciplinary course designed to familiarize students with various historical, cultural, sociological, and political issues affecting the Chicana/o experience in the United States. The course introduces students to research and publications in related disciplines and familiarizes them with the interdisciplinary aspects of Chicana/o Studies. The course also includes themes and methodologies from related disciplines (history, anthropology, sociology, psychology, and political science). Field trips may be required.
Transfer credit: UC, CSU

CHST R107—History of Mexicans in the United States 3 units
3 hours lecture weekly
This course is a historical survey of the Mexican/Chicano experience from the pre-Columbian period to the present. The emphasis is on Mexican settlement of Greater Mexico and the Southwest United States within the broader history of the United States. In the process, the course covers significant events in the historical development of the United States and Mexico—the colonial era, the early National period, the westward (and northward) movement of people across America in the last 150 years, and U.S.-Mexico relations in the 19th and 20th centuries. The course satisfies degree requirements in American institutions. Field trips may be required. (Same as HIST R107) (2)
Transfer credit: UC, CSU

CHST R114—Psychological Issues of the Mexican People in the Southwest 3 units
3 hours lecture weekly
Course analyzes experiences of people of Mexican descent living in the Southwest from a psychological perspective. Examines nature of individual and group conflict, explores problems of social participation in a dominant culture and its psychological implications. Course describes emergence of distinctive identities of people of Mexican descent. (Same as PSY R114)
Transfer credit: UC, CSU