



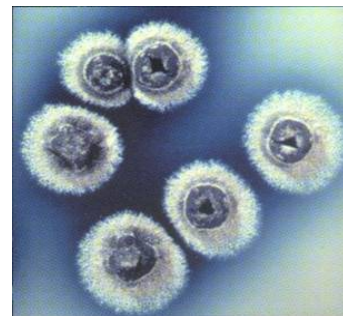
PATHWAY TO SCIENCE CAREERS:

B.S. in Biochemistry

Biochemists study the chemical composition of living things. They analyze the complex chemical combinations and reactions involved in metabolism, reproduction, and growth. Biochemists do most of their work in biotechnology, which involves understanding the complex chemistry of life. Holders of this degree become medical doctors, pharmacists, dentists or allied health professionals, or they pursue careers in universities, government or the health industries.

Bachelor of Arts in Chemistry Related Occupations:

Anesthesiologist	Biochemist	Biomedical Engineer
Chemist	Clinical Research Specialist	College Professor
Cytologist	Dairy Technologist	Geneticist
Laboratory Supervisor	Patent Attorney	Perfumer
Pharmaceutical Sales Rep.	Pharmacist	Physician
Process Development Specialist	Product Development Manager	Quality Control Inspector
Regulatory Affairs Specialist	Science Teacher	Toxicologist



Below is a list of **recommended** (not required) lower division courses that may be taken at Santa Ana College to fulfill the 60 units requirement to transfer to **California State University Fullerton**. In taking these courses, one would be better prepared to fulfill major upper-division requirements upon transferring.

SAC Lower Division Requirements:	CSUF Lower Division Equivalents:
♦ Chem 219 General (5)	Chem 120A General (5)
♦ Chem 229 General/Qualitative Analysis (5)	Chem 120B General (5)
♦ Chem 249 Organic Chemistry I (5; No upper division units)	Chem 301A Organic AND Chem 302A Organic Lab (4)
♦ Chem 259 Organic Chemistry II (5; No upper division units)	Chem 301B Organic AND Chem 302B Organic Lab (4)
Phys 279 College Physics I OR Phys 210 Principles of Physics I (4)	Phys 211 Elem Physics I AND Phys 211L Elem Physics I Lab (4)
Phys 289 College Physics II OR Phys 211 Principles of Physics II (4)	Phys 212 Elem Physics II AND Phys 212L Elem Physics II Lab (4)
♦ Math 180 Analytical Geometry/Calculus (4)	Math 150A Calculus (4)
Math 185 Analytical Geometry/Calculus (4)	Math 150B Calculus (4)
Biol 211 Cellular/Molecular Biology (5)	Biol 172 Cellular Basis of Life (5)
No Course Available	Biol 273 Genetics/Molecular Biology (5)

♦ Fulfill requirements for the Biological Science Associate in Science degree at Santa Ana College

