Programs in Life Sciences (or Biology) are designed to provide an understanding of the living world through general or specialized study of plant and animal life. Some scientists conduct basic research to increase the knowledge of living organisms, while those in applied research use this knowledge to develop new medicines, increase crop yields and improve the environment.

**C.O.M.**

**Suggested Transfer Preparation**

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Transfer students are strongly advised to meet with a Counselor and complete as many preparatory course as possible before transferring. Refer to the following links for articulation agreement updates, revisions and general information.

- [www.assist.org](http://www.assist.org)
- [UCTransfer.org](http://UCTransfer.org)

**COLLEGE OF MARIN**

Transfer & Career Center
835 College Avenue
Kentfield, CA 94904
(415) 485-9671

Transfer/Counseling Advisory Committee:

Theodora Fung, Bruce Furuya, Letta Hlavachek, Bessie Ng-Jung, Alexandra Magallanes Rivera, Jim Sweeney, Karen Robinson, Emy Bagtas

For more extensive information on career opportunities, go the Transfer & Career Center and create your EUREKA account

**EXAMPLES OF EMPLOYERS**

- Government Agencies
- Pharmaceutical Companies
- Museums
- Zoos & Aquariums
- Private Research Foundations
- Colleges & Universities
- Conservation Societies
- Park Districts
- Crime/Forensic Labs
- Clinics/Hospitals
- Biotechnology Companies
- Manufacturers
- Laboratories
Typical Coursework associated with the study of Biology

Skills acquired in a biology major fall into four categories: investigative, research-based, quantitative, and analytical. Students with biology majors develop the ability to formulate concepts allowing them to solve practical problems and to find better ways of meeting world needs. Within the study of Biology the student will draw from many areas of concentration including: Anatomy, Botany, Developmental Biology, Entomology, Marine Biology, Molecular Biology, Physiology, Biochemistry, Cell Biology, Ecology, Genetics, Microbiology, Neurobiology, and Zoology. Study is usually conducted in a laboratory, lecture hall or in the field.

California Universities offering Biology Degrees

California State University:

Refer to the following link for locations, web addresses and general information: [www.csumentor.edu](http://www.csumentor.edu)

UC - Berkeley  Bioengineering BS, Bioengineering MS/Ph.D., Endocrinology MA/Ph.D., Epidemiology MS/Ph.D., Genetics and Plant Biology (Natural Resources), BS, Infectious Diseases and Immunology Ph.D., Integrative Biology BA, Integrative Biology MA/Ph.D., Microbial Biology (Natural Resources), BS, Microbiology MS/Ph.D. (Interdisciplinary), Molecular and Chemical Nutrition MS/Ph.D., Molecular and Cell Biology BA (Specialization: Biochemistry and Molecular Biology; Cell and Developmental Biology; Genetics and Development; Immunology; Neurobiology), Molecular and Cell Biology MA/Ph.D., Molecular Environmental Biology (Natural Resources) BS, Molecular Toxicology BS/Minor (Natural Resources), Molecular Toxicology Ph.D./Ph.D., Neuroscience Ph.D., (Interdisciplinary), Plant Biology MS/Ph.D.

UC - Davis Biochemistry and Molecular Biology BS, Biochemistry and Molecular Biology MS/Ph.D., Biological Sciences (Agricultural/Environmental Sciences) BS/Minor, Biological Sciences (Letters and Sciences) AB/BS/Minor, Biophysics Ph.D., (Interdepartmental), Biostatistics MS/Ph.D., Biotechnology BS, Cell and Developmental Biology MS/Ph.D., Biotechnology BS, Cell Biology Environmental Toxicology MS/Ph.D./Ph.D., Cellular and Molecular Biology MS/Ph.D., Entomology Ph.D., Environmental Toxicology MS/Ph.D., Environmental Toxicology AB/BS, Evolution, Ecology and Systematics MS/Ph.D., Marine Biology BS, Microbiology MS/Ph.D., Immunology MS/Ph.D., Microbiology AB/BS Microbiology MS/Ph.D., Molecular Cellular and Integrative Physiology MS/Ph.D., Molecular, Cell and Integrative Physiology MS/Ph.D., Neurobiology, Physiology and Behavior BS, Neuroscience Minor/Microbiology MS, Plant Biology BS/Minor/Microbiology MS, Population Biology Ph.D., Quantitative Biology and Bioinformatics Minor

UC - Irvine Biochemistry and Molecular Biology BS, Biological Sciences Minor/Microbiology MS, Biomedical Sciences MS/Ph.D., Developmental and Cell Biology BS, Ecology and Evolutionary Biology BS, Environmental Toxicology MS/Ph.D., Genetics BS/Microbiology and Immunology BS (New students are not admitted directly to the major), Neurobiology BS, Plant Biology BS, Biochemistry and Molecular Biology MS/Ph.D., Biotechnology BS/Minor/Microbiology MS/Ph.D., Microbiology MS/Ph.D., Plant Biology MA/CPHIL/Ph.D., Biomedical Research Minor, Cellular and Molecular Pathology MS/Ph.D., Computational and Systems Biology, (Pre) MS, Biomedical Sciences MA/CPHIL/Ph.D., Biotechnology BS/Minor/Microbiology MS/Ph.D., Biotechnology BS/Microbiology MS/Ph.D., Plant Biology BS/Minor/Microbiology MS/Ph.D., Population Biology Ph.D., Quantitative Biology and Bioinformatics Minor

UC - Los Angeles Biochemistry and Molecular Biology BS, Biomedical Sciences Minor/Microbiology MS, Biomedical Sciences MS/Ph.D., Developmental and Cell Biology BS, Ecology and Evolutionary Biology BS, Environmental Toxicology MS/Ph.D., Genetics BS/Microbiology and Immunology BS (New students are not admitted directly to the major), Neurobiology BS, Plant Biology BS, Biochemistry and Molecular Biology MS/Ph.D., Biotechnology BS/Minor/Microbiology MS/Ph.D., Microbiology MS/Ph.D., Molecular, Cell and Integrative Physiology Ph.D., Neurobiology MS/CPHIL/Ph.D., Neuroscience BS/Minor (Interdepartmental), Neuroscience Ph.D., Physiological Sciences BS, Biological Sciences BA, Biophysics MS/Ph.D., Biotechnology MS/Ph.D., Microbiology MS/Ph.D., Molecular Genetics and Genomics MS/CPHIL/Ph.D., Molecular Cell and Developmental Biology MS/CPHIL/Ph.D., Neurobiology MS/CPHIL/Ph.D., Pharmacology MS/Ph.D., Physiology MS/CPHIL/Ph.D., Psychological Sciences MS, Biological Sciences BS (Emphasis: Emphasis: Human Biology), Integrative Biology, Molecular and Cell Biology, Quantitative and Systems Biology MS/CPHIL/Ph.D.

UC - Merced Biochemistry and Molecular Science and Engineering MS/Ph.D., Biological Sciences BS (Emphasis: Human Biology), Integrative Biology, Molecular and Cell Biology, Quantitative and Systems Biology MS/Ph.D.

UC - Riverside Biotechnology BS/Minor, Biotechnology MS/Ph.D., Biological Sciences BS (Tracks: Bioinformatics and Genomics; Biology; Cell, Molecular, and Developmental Biology; Conservation Biology; Environmental Toxicology; Evolution and Ecology; Medical Biology; Microbiology; Plant Biology; Biology BA/BS, Biomedical Sciences MD/Ph.D., Botany and Plant Sciences BA/BS/MS/Minor (Options: Ecology, Evolution, Systematics; Plant Cellular, Molecular; Plant Genetics, Breeding and Biotechnology; Plant Pathology; Nematology, Pest Management), Cell, Molecular, and Developmental Biology MA/Ph.D., Entomology MS/Ph.D., Environmental Education MS/Ph.D., Environmental Toxicology MS/Ph.D., Evolution, Ecology, and Organismal Biology MS/Ph.D., Genetics, Genomics, and Bioinformatics MS/Ph.D., Microbiology MS/Ph.D., Neuroscience BS/Minor/Microbiology MS/Ph.D., Plant Biology MS/Ph.D., Plant Pathology MS/Ph.D.

UC - San Diego Animal Physiology and Neurosciences BS, Biochemistry and Cell Biology BS, Bioengineering (Biotechnology) BS, Bioengineering BS, Bioengineering MS/M Eng.s/Ph.D., Bioengineering: Biomolecular Sciences MS/Ph.D., Biomedical Sciences MS/Ph.D., Biology, Cell, Molecular and Developmental Biology MS/Ph.D., Biotechnology BS/Minor/Microbiology MS/Ph.D., Botany and Plant Sciences BS/Minor/Ph.D., Biochemistry MS/Ph.D., Biology , Biotechnology MS/Ph.D., Biology with specialization in Bioinformatics BS/Ph.D., Biotechnology MS/Ph.D., Biology, General Biology, BS, Human Biology, Biology, Ecology, Behavior and Evolution, BS, General Biology Minor, Microbiology MS, Molecular Biology MS, Molecular Pathology Ph.D., Neuroscience Ph.D.

UC - San Francisco Biochemistry and Molecular Biology Ph.D., Biochemistry and Molecular Biology BS, Biochemistry and Molecular Biology MS/Ph.D., Biological Sciences BA/BS, Biomedical Sciences BS/Minor/Ph.D., Biotechnology BA/BS, Biophysics MS, Biotechnology BS/Minor/Ph.D., Biophysics MS, Cell Biology MS/Ph.D., Genetics MS/Minor/Ph.D., (Interdisciplinary), Neuroscience MS, Quantitative Biology, MS, Biotechnology MA/Ph.D., Pathway Option

UC - Santa Barbara Biochemistry and Molecular Biology MS/Ph.D., Biotechnology MS/Ph.D., Cell Biology MS/Ph.D., Microbiology MS/Ph.D., Molecular, Cell, and Developmental Biology MA/Ph.D., Molecular, Cell, and Integrative Physiology MS/Ph.D., Neurobiology MS/CPHIL/Ph.D., Neuroscience BS/Minor (Interdepartmental), Neuroscience Ph.D., Physiological Sciences MS, Biological Sciences BS (Emphasis: Emphasis: Human Biology), Integrative Biology, Molecular and Cell Biology, Quantitative and Systems Biology MS/CPHIL/Ph.D.

UC - Santa Cruz Biochemical and Molecular Biology MS, Biotechnology MS, Biotechnology BS/Minor/Ph.D., Biotechnology BS/Minor/Microbiology MS/Ph.D., Biology and Evolution BS, Ecology and Evolutionary Biology MA/Ph.D., Environmental Toxicology MS/Ph.D. (Interdisciplinary), Marine Biology BS, Molecular, Cellular and Developmental Biology BS/MA/MS/Ph.D., Neuroscience and Behavior BA/BS

Private Universities:

Refer to the following link for California Independent Colleges and Universities locations and web addresses and general information: [AICCU.edu](http://AICCU.edu)

Holy Names University  Mills College  University of Southern California  John F. Kennedy University  National University
Mount St. Mary's College  Vanguard University  Claremont McKenna College  La Sierra University  New College
Whittier College  Concordia University  Notre Dame de Namur University  Fresno Pacific University  University of San Francisco
Dominican University of California  Loma Linda University  AICCU.edu