

# HEALTH SCIENCES

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Division: Natural Sciences

## Division Dean

Dr. Bridget Salzameda

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## Faculty

Michael Baker  
Bradley Dawson  
Kaitlin Kroupa  
Jacob Sapiro

## Health Sciences

Pre-Nursing Associate in Arts Degree (<https://catalog.nocccd.edu/fullerton-college/degrees-certificates/pre-nursing/pre-nursing-associate-in-science-degree/>)

Biology Associate in Science Degree (<https://catalog.nocccd.edu/fullerton-college/degrees-certificates/biology/biology-associate-science-degree/>)

## Microbiology

Microbiology Associate in Science Degree (<https://catalog.nocccd.edu/fullerton-college/degrees-certificates/microbiology/microbiology-associate-science-degree/>)

### ANAT 231 F General Human Anatomy 4 Units

**Prerequisite(s):** MATH 040 F with a grade of C or better or math skills clearance

54 hours lecture and 54 hours lab per term. This course includes a logical analysis of body tissues, organs and systems. It stresses the microscopic, developmental and gross anatomy of mammals, with special emphasis on human anatomy. Special attention is given to pathological as well as normal conditions. The laboratory work includes study of the developmental, microscopic and gross anatomy of preserved specimens and models. This course is designed primarily for students interested in careers in various allied health fields. (Degree Credit) (CSU) (UC Credit Limitation) AA GE, CSU GE, IGETC (C-ID: BIOL 110B)

### ANAT 240 F Human Physiology 5 Units

**Prerequisite(s):** CHEM 101 F and ANAT 231 F, both with a grade of C or better

54 hours lecture and 108 hours lab per term. This course provides an in-depth study of human function. The focus of the course is maintenance of homeostasis. Organ systems are studied with respect to their interactions under normal and abnormal conditions. Laboratory experiences reinforce concepts studied in lecture and introduce students to clinical techniques. The course is designed for pre-health profession majors and other students that require a one semester course in physiology. (Degree Credit) (CSU) (UC) AA GE, CSU GE, IGETC (C-ID: BIOL 120B)

### MICR 220 F Medical Microbiology 4 Units

**Advisory:** Biological sciences lab course

54 hours lecture and 54 hours lab per term. This course focuses on the study of microorganisms that pose significant health problems at both the personal and community level. Special attention is given to the topics of infectious disease transmission, immunology, sanitation and prophylaxis. Principles of applied microbiology are stressed. Recommended for students planning to enter two-year allied health professional programs. (CSU) (Degree Credit) AA GE, CSU GE

### MICR 262 F General Microbiology 5 Units

**Prerequisite(s):** CHEM 101 F or equivalent with a grade of C or better and a biological science lab course that includes cellular structure/function (such as ANAT 231 F, BIOL 101 F, BIOL 170 F, etc.) with a grade of C or better.

54 hours lecture and 108 hours lab per term. This course studies the morphology, taxonomy, metabolism, and molecular genetics of microbes with emphasis on bacteria, protozoa, viruses, helminths and fungi. The role of microorganisms in the disease process, epidemiology, immunology and chemotherapeutic control measures, environmental impact and industrial application are discussed. Laboratory exercises focus on the development of basic techniques in aseptic handling, visualization, and quantification of microbes. Other lab exercises include sampling water and soil for medically or environmentally important microbes, assessing antibiotic sensitivity, fluorescent microscopy, and immunoassays. This course is designed for students pursuing a career or major in microbiology and various allied health professions. (CSU) (UC) (Degree Credit) AA GE, CSU GE, IGETC