



BIOCHEMISTRY

Program

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STOCKTON | SCHOOL OF NATURAL
UNIVERSITY | SCIENCES & MATHEMATICS



Biochemistry Program | BCMB

ABOUT THE PROGRAM

Stockton's **Biochemistry (BCMB) Program** represents a rapidly growing discipline that bridges the chemical and biological sciences. It focuses on how cells solve various biological problems and the role of the chemical components. Knowledge of this field was always necessary for those interested in medical science and it has become increasingly important for those interested in the pharmaceutical and forensics fields. The program offerings as well as the faculty expertise reflect the combined chemical and biological basis for this field. Since it is such an experimental science, the program emphasizes laboratory skills and use of instruments and equipment to prepare students for employment or for study toward a variety of advanced degrees. In addition, an articulation agreement with the Ernest Mario School of Pharmacy at Rutgers University allows students the opportunity to earn an advanced degree in pharmacy combined with a baccalaureate degree from Stockton. The BCMB degree is accredited by the American Society for Biochemistry and Molecular Biology (ASBMB).

Graduation Requirements:

In addition to the University's general education requirements, students must meet the graduation requirements for a B.S. in Biochemistry/Molecular Biology. The curriculum includes introductory courses in biology, chemistry, physics and mathematics as well as intermediate and advanced courses in biochemistry, biology and chemistry. The

culmination is the senior project or internship. In some cases, this may require more than one semester to complete and students are encouraged to begin planning early and allow ample time for completion. All students will make an oral presentation of the senior project or internship at the senior symposium which is held every semester. There are two requirements for graduation:

1. An overall grade point average of C or better is required for all core, cognate and elective courses;
2. A grade of C or better is required for all core courses that are listed.

Career Opportunities:

Students who earn degrees in this field have a variety of options for employment or higher education. They can pursue careers in the pharmaceutical, forensics, or biotechnology industries. The degree also prepares students for certifications to be a high school Biology or Chemistry teacher. Students with a degree in this field could also pursue advanced study in medicine, pharmacy, dentistry, veterinary medicine or complete graduate degrees in microbiology, cellular biology, biochemistry or molecular biology.

Special Opportunities:

For the Senior Research Project, students have the opportunity to carry out research on campus in the laboratory of a faculty member. This might result in publication of work as well as presentation at a conference. There are several sources of financial support for students to attend conferences. For the Senior Internship, students may choose to perform off-campus work in government, university or industrial laboratories. Examples of these have research projects carried out by students through the National Science Foundation Research Experience for Undergraduates program.

In addition, Stockton's Washington Internship program offers opportunities for placement in institutions such as National Institutes of Health, National Science Foundation and Walter Reed Army Medical Hospital. Academic credit will be granted for such experience, provided it contributes significantly to the student's intellectual development. An outstanding opportunity is participation in Stockton's International Education experience.

Stockton also has an articulation agreement with the Ernest Mario School of Pharmacy at Rutgers, the State University, so that students can complete courses in the BCMB major for two or three years and then transfer to Rutgers. Students can be accepted into this program directly from high school and earn a B.S. degree in BCMB from Stockton and a Doctor of Pharmacy degree from Rutgers.

There is an Student Chapter of ASBMB that focuses on outreach activities in the local area and provides funding for students to attend the national meeting.

FOR ADDITIONAL INFORMATION

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FOR INFORMATION ABOUT THE PROGRAM:

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Stockton is an AA/EQ institution.