



# College of Math and Sciences

The College of Mathematics and Sciences comprises departments and faculty deeply committed to the spiritual and intellectual development of students in their respective disciplines. The hallmark of the college is the “hands on” preparation that students receive so that they are ready to actively participate in their disciplines upon graduation. Through mentored research experiences with professors in senior capstone projects and internship placements, students learn to apply the theoretical knowledge they received in the classroom so that they are ready for the workplace or graduate education. The spiritual environment of BYU–Hawaii, coupled with the disciplinary training students receive, uniquely prepares students to enter the highly competitive markets of today’s global economy—students emerge who are capable of serving others in church, community, and professional settings.



## Departments and Offered Majors

### Biochemistry & Physical Science

Biochemistry is the study of the molecules and chemical reactions in living systems, including humans. Within the subject’s vast umbrella are fascinating fields such as forensic science, medical chemistry, nutrition, and genetic engineering—sciences in the spotlight of both popular culture and political debate. Students master principles of scientific research, writing, presentation, and stewardship. With this expertise, biochemistry majors are well equipped to enter medical, dental, pharmacy and other professional schools.

- ✦ B.S. Biochemistry
- ✦ Biochemistry Minor
- ✦ B.S. Secondary Education (Biochemistry, Chemistry, Physical Science, Physics)

**Career opportunities:** Biochemical Technician, Pharmaceutical Researcher, Research Analyst, Forensic Chemist, Technical Sales Representative, Dietitian, Nutritionist, Environmental Chemist, Nanotechnologist, Genetic Engineer

### Biology

Instruction in biology provides students a foundation in the life sciences, with an emphasis on current developments in physiology, ecology, molecular biology, genetics, evolution, anatomy and natural history. The major prepares students for employment in a wide breadth of industries, including research, health, conservation, and government. In addition to the general biology major, students can specialize in tracks in marine, molecular, and pre-professional biology (to prepare for medical, dental, and veterinary schools).

- ✦ B.S. Biology
- ✦ B.S. Biology Education
- ✦ Biology Minor

**Career opportunities:** Conservation Biologist, Microbiologist, Aquaculturist, Health Inspector, Food Scientist, Molecular Researcher, Pharmaceutical Sales Representative, Park Service Biologist, Fish & Wildlife Manager, Medical Professional

### Exercise and Sport Science

Personal health and well-being are key values of quality living for people of all ages. In light of the pandemic issues of rising obesity and malnutrition, the world hungers for men and women of sound mind, body, and spirit who will have an influence upon society in developing healthy lifestyles of mental, emotional, spiritual, and physical wellness. Students of Exercise and Sport Science are fundamentally prepared to serve in a wide world of unique and exciting careers in sports, health, physical fitness, and recreation.

- ✦ B.S. Exercise and Sport Science
- ✦ B.S. EXS/Physical Education Certification
- ✦ Coaching Minor

**Career opportunities:** Exercise & Sports Facilities Manager, Personal Trainer, Recreation Leader, Group Exercise Instructor, Coach (High School Level or Higher), Physical Education Instructor, Occupational Therapist, Athletic Trainer, Sports Medicine Assistant, Physical Therapist

### Mathematics

The study of mathematics is as revered and ancient as it is modern and relevant. Mathematics majors are not only versed in its many fields but are also prepared to expound upon difficult mathematical concepts through proofs, definitions, theorems, and written and oral presentations. The potential for application of mathematical knowledge, analytical skills, and problem-solving abilities are unlimited, and experts of the science are in high demand in every industry, both private and public.

- ✦ B.S. Mathematics
- ✦ B.S. Mathematics Education
- ✦ Mathematics Minor

**Career opportunities:** Applied Mathematician, Statistician, Sport Statistician, Pure Mathematician,

Data Analyst, Actuary, Physicist, Operations Researcher, Cryptographer, Engineer

### Psychology

Psychology seeks to answer important questions concerning human identity, feelings, and behavior. Psychologists observe and record behavior, testing hypotheses scientifically. Many psychology majors go on to do graduate study in psychology and other fields; others find careers in business, human resources, social work, education, or law. The Organizational Behavior minor is intended to complement majors in other fields, such as business management or political science. The minor stresses the analysis of human interrelationships in organizations such as corporations or governments, and is excellent preparation for future education in management, personnel, or executive leadership.

- ✦ B.A. Psychology
- ✦ Psychology Minor
- ✦ Organizational Behavior Minor

**Career opportunities:** Addiction Recovery Counselor, Behavior Analyst, Mental Health Technician, Human Resources Recruiter, Employee Relations Assistant, Public Relations Specialist, Job Analyst, Academic Advisor, Child Care Worker, Career Counselor



**BYU**  
HAWAII

Admissions  
BYUH #1973  
55-220 Kulanui Street  
Laie, HI 96762-1294  
USA

Phone: (808) 675-3738  
Fax: (808) 675-3741

admissions@byuh.edu  
<http://admissions.byuh.edu>