

## BIO 4410 - Internship in Biology (1-2)

(Catalog description)

On-the-job training and work experience in the biological sciences under the guidance of a faculty internship coordinator and on-site job supervisor. The internship is arranged by the student and may not be a continuation of an ongoing job or volunteer experience. A minimum of 4 hours per week (60 hours/semester) per unit credit. Grade will be based on a written evaluation from the job supervisor and an evaluation of the student presentation and/or written report by the internship coordinator. Student must be enrolled in BIO 4410 during the term in which work at the internship site is done. Hours worked in one term may not carry over into another. A maximum of 4 units of BIO 4410 and/or BIO 4610 is allowed as elective core units for Biology, Biotechnology, and Environmental Biology majors. May be taken unlimited times.

**Prerequisite(s):** Completion of 60 or more units. Overall GPA of 2.0 or higher. Completed application signed by the on-site job supervisor and on-campus internship coordinator.

**Component(s):** Supervisory

**Grading Basis:** Graded Only

**Repeat for Credit:** May be taken multiple times

**Repeat for Credit Limit:** Unlimited

**Note(s):** May count towards required and/or electives. Please refer to each major program for the maximum units allowed.

### Bio 4410 Internship for pre-professional track students (2 units)

There are two tracks of internship opportunities for CPP students interested in pursuing pre-professional studies. To enroll in BIO 4410 internship, please follow the procedures described below.

- 1) Pomona Health Career Ladder program (<https://www.westernu.edu/ladder-pomona/index.php>): A partnership program among Pomona Unified School District, Cal Poly Pomona and Western university, the goal of this program is to identify math and science scholars in Pomona schools (K-12), guide them through an undergraduate health/science degree at CPP and into many of the professional training programs at WesternU through a program-based network of outreach, guidance, mentoring and financial assistance. Students will be preparing workshops on a spectrum of health related topics that promote positive youth development in medically underserved populations involving family, mentoring biomedical scholars from middle and high schools and helping with math, science, verbal and testing skills necessary for embarking on a successful path to health related professions. Additionally, interns will have the opportunity to sit in classes at Western and shadow specific healthcare professionals.
- 2) Pre-dental Internship program with Dr. Wade Banner at *In Motion Dentists* (In Home Dental Care). Students are expected to engage in both clinical shadowing, training and hands-on experience, with minimum of 8 hours per week working on different assignments. Please see "Inmotiondentists predental Internship Program.pdf" file for detailed description. Interested students should fill out "Inmotiondentists Predental Internship Application.docx" form and email to [InMotionDentists@gmail.com](mailto:InMotionDentists@gmail.com).

### Procedures to Enroll in BIO 4410

1. Complete and sign the "Learning Plan" form and have your internship site supervisor sign it as well.
2. Submit the "Learning Plan" form to me to receive a permission number to enroll in BIO 4410 listed under Dr. Zhao in BroncoDirect.
3. After enrolling, submit additional university internship forms at BroncoServe at <http://app.calstates4.com/cpp>, which must be completed by the end of week 2. Otherwise, you will be automatically dropped from BIO 4410.

Please note: The following responsibilities and duties list should be included when filling out forms at BroncoServe:

For Internship at **Western University of Health Sciences**:

- 1) Opportunity to shadow the practicing professionals (physician, dentist, and pharmacist, PA) to learn about the challenges and rewards of the chosen career paths
- 2) Shadow the currently enrolling health-related graduate students (medical, dental, pharmacy, veterinarian,

- optometry, podiatry) with them serving as mentor for Cal Poly Pomona students
- 3) Learn firsthand how to overcome the challenges of becoming successful once one gets accepted into the professional schools
  - 4) Learned firsthand what it takes from current enrolling professional students and also the faculty to get accepted into professional schools and what obstacles may arise
  - 5) Opportunity to sit in the professional graduate classes with the current medical, dental, or pharmacy students to learn firsthand the new PBL (Problem-Based Learning) teaching methods being used in professional schools as of current
  - 6) Prepare different workshops on a variety of health-related medical topics to underserved K-12 students guiding them towards a path in the medical field
  - 7) Learn to be successful in working with other fellow students in team setting
  - 8) Provide leadership to underserved K-12 students
  - 9) Serve as a person of hope and knowledge to the underserved K-12 students making them engage in fun presentations regarding medical topics
  - 10) Mentor and help the underserved K-12 students to show interest in health-related careers
  - 11) Present different workshops on a variety of health related medical topics to underserved K-12 students where they can see a bright future in health-related paths

For Internship at ***In Motion Dentists***:

- 1) Assisting the dentist in dental procedures
- 2) Observe all dental procedures first-hand
- 3) Learn the dental terminology
- 4) Learn the usage of dental equipment
- 5) Cleaning and sterilizing dental instruments
- 6) Learn and comply safe procedures, protocols, rules, and regulations in dental practice
- 7) Setting up dental trays for procedures
- 8) Communicating with patients about health concerns
- 9) Obtain patient's vital signs
- 10) Completing patient paperwork
- 11) Learn the significance of patient confidentiality
- 12) Expose and picture oneself as a practicing professional
- 13) Understand the challenges and awards of a dentist as a profession
- 14) Prepare patient for dental treatment by welcoming, comforting, seating, and draping patient.

**BIO 4410 Pre-professional Internship Evaluation**

Please submit a final report summarizing your internship experience. Evaluation from on site internship supervisor will also be taken into consideration in your final grade.

