BIOC 426 EXEMPTION CRITERIA

Biochemistry majors are encouraged to substitute two or more quarters of undergraduate research experience (499 or 399 level) for the required BIOC 426 laboratory. The criteria for exemption from BIOC 426 are:

1. The BS Biochemistry major will usually accept two quarters of 499 credit as equivalent to the one quarter BIOC 426 lab. Students have been exempted with 499 credits from many different departments including Biochemistry, Chemistry, Biology, Microbiology, Pharmacology, immunology, Biological Structure, Physiology and Biophysics, Genome Sciences, Medicine, Pathology, Neurology, Surgery, Medicinal Chemistry, Pediatrics, Radiation Oncology, Comparative Medicine, Periodontics, Bioengineering, and Urology. Students have also been granted exemption for doing research at affiliated institutions such as Fred Hutchinson Cancer Research Center (FHCRC), Seattle Biomedical Research Institute (SBRI), Seattle Children’s Hospital, Institute of Systems Biology (ISB), Benaroya Research Institute (BRI) and Harborview Medical Center (HMS). At least two consecutive quarters of 499 credit are required because it takes a full quarter to launch a new project and to begin making significant progress. To assure a meaningful research experience, a minimum of six credits of 499 are required, where one credit corresponds to three hours of laboratory work per week. For undergraduate research in departments that do not grade 499, two quarters of 499 credit are required; for departments that grade 499 numerically, two quarters of 499 are required with a minimum grade of 2.5 in each quarter.

2. No specific research experience is absolutely required but examples of appropriate areas include:
   a. biochemical techniques
   b. separation and purification techniques
   c. immunological techniques
   d. biophysical and computational techniques
   e. molecular biological techniques
   f. cell biology techniques
   g. whole organism techniques (e.g. using yeast, fruit flies, worms, frogs, zebrafish, mice, or plants)

3. An equivalent industrial research experience will also be accepted, with two months of continuous industrial research experience considered equivalent to two consecutive quarters of 499. You will need to provide a detailed description of the work you did in the lab along with contact information for your research supervisor and your supervisor’s signature on the exemption form attesting to your experience and knowledge.

4. Applications for exemption should be submitted on the appropriate form to the Undergraduate Advisers in 303 Bagley. The application form is available in 303 Bagley or on the Chemistry Department undergraduate website. Note that the BIOC 426 lab tends to fill quickly so it is important to submit the exemption petition well in advance before registration begins for autumn and spring quarter.

-OVER-
APPLICATION FOR BIOC 426 EXEMPTION

Date: 

Name: 

Student ID: 

Student Contact Information (email and/or phone): 

Research Supervisor: 

Supervisor's Department (if applicable): 

Weekly Time Commitment (hours/week): 

Duration of Research Experience (academic quarters or months): 

Goals of Research Project: 

Experimental Techniques Used That Are Relevant To Biochemistry: 

1. 

2. 

3. 

4. 

5. 

6. 

Signature of Research Supervisor ____________________________ Date __________