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 Biochemistry BS major will usually accept 2 quarters of 499 credit as equivalent to the 1 quarter BIOC 426 course. In the past, students have been exempted with 499 credits from many different departments and affiliated institutions 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, Urology, and affiliated institutions such as the 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 (HMC). At least 2 consecutive quarters of 499 credit are required because it takes a full quarter to launch a new project and begin making significant progress. To assure a meaningful research experience, a minimum of 6 credits of 499 are required, where 1 credit corresponds to 3 hours of laboratory work. For undergraduate research in departments that do not grade 499, 2 quarters of 499 credit are required; for departments that grade 499 numerically, 2 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) molecular biological techniques
   e) biophysical and computational 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 2 months of continuous industrial research experience considered equivalent to 2 consecutive quarters of 499. You will be required to provide a written and signed statement from your supervisor attesting to your experience and knowledge.

4. Applications for exemption should be submitted to the Undergraduate Advisers (Lani Stone, Mary Harty, or Jill Fulmore) on the appropriate form along with an unofficial copy of your transcript showing the 499 credits received. The application form is available in 109 Bagley or on the Chemistry Department undergraduate website. Applications for exemption for autumn quarter will be accepted April 1 through May 1; applications for exemption for spring quarter will be accepted January 15 through February 15. There is no guarantee that late applications will be processed or granted after the stated deadlines. If you are awaiting the appearance of 499 credits on your transcript, submit the completed application and provide your transcript as soon as possible.
APPLICATION FOR A 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):

Description and Goals of Research Project (one paragraph):

Main Experimental Techniques Used:

__________________________________________________________
Signature of Research Supervisor

__________________________________________________________
Date

UNOFFICIAL TRANSCRIPT SHOWING 499 CREDITS MUST BE ATTACHED.