Whereas independent undergraduate research is intrinsically more beneficial to students than generic laboratory courses, Undergraduate research credits can be substituted for the 2 credit requirement for Biochemistry Laboratory, provided the following 3 stipulations are met.

1. The student takes:
   Chem 463 Senior Thesis for at least 2 credits.

2. The Undergraduate Research Advisor sign the form below stipulating that the research experience involves at least 6 of the following 11 topics typically covered in Biochemistry Laboratory.

3. A document written by the student, in the form of a senior thesis, honors thesis or research report be turned in to the department of chemistry at the completion of the research, before graduation.
Chemistry 472

Biochemistry Research Checklist

Please check all research experiences that apply:

- 1 Buffers, pH and UV/Vis spectroscopy
- 2 Protein and DNA quantitation
- 3 Fluorescence Spectroscopy
- 4 Gel Filtration, Affinity and Ion Exchange Chromatography
- 5 Protein Electrophoresis
- 6 Plasmid Purification
- 7 Restriction analysis and DNA Electrophoresis
- 8 DNA Sequence analysis
- 9 PCR
- 10 Enzyme Kinetics
- 11 Protein Purification

Undergraduate Research Advisor (name) ____________________________

Undergraduate Research Advisor (signature) _________________________