

Name: _____

Date: _____

DePauw University- Dept of Chemistry & Biochemistry

Checklist of Requirements for the Biochemistry Major

Required Courses (7.25 credits):

- Chem 120:** Structure & Properties of Organic Molecules (1.0 cr)
- Chem 130:** Structure & Properties of Inorganic Molecules (1.0 cr)
- Chem 170:** Stoichiometric Calculations (0.25 cr)
- Chem 240:** Structure & Function of Biomolecules (1.0 cr)
- Chem 260:** Thermodynamics, Kinetics, and Equilibrium (1.0 cr)
- Chem 310:** Enzyme Mechanisms (1.0 cr)*
- Chem 343:** Advanced Biochemistry (1.0 cr)
- Chem 440:** Biophysical Chemistry (1.0 cr)

Elective Courses: (2 credits chosen from the following; one course must include a lab and not be research)

- Chem 342:** Topics in Biochemistry (0.5 cr)
- Bio 250:** Microbiology (1.0 cr)
- Bio 314:** Cell Biology and Biochemistry (1.0 cr)
- Bio 320:** Genetics (1.0 cr)
- Bio 325:** Bioinformatics (1.0 cr)
- Bio 335:** Animal Physiology (1.0 cr)
- Bio 361:** Immunology (1.0 cr)
- Bio 382:** Neurobiology (1.0 cr)
- Bio 415:** Molecular Genetics (1.0 cr)

The following may apply w/approval of advisor, provided they involve a biochemical topic. No more than 0.5 cr of research may apply.

- Chem 335, 354, 364:** Topics in different subdisciplines in chemistry (0.5 cr)
- Bio 390:** Topics (variable)
- Chem 395:** Independent study (variable)
- Chem 405:** Thesis (0.25 cr)
- Bio 490:** Research Problems (0.5 cr)

Total for the major: 9.25 credits NOTE: At least 3.0 courses must be at the 300 level or above

Senior Requirement:

- A comprehensive exam based upon the literature will be given two times during the spring semester senior year (you must pass it once). A practice test is available at the Dept web site.
- Attendance at 12 approved department seminars during your junior and senior years (8 for those in the class of 2006).

Courses Required via Prerequisite Structure (total 4.0 courses):

- Bio 215:** Cells & Genes (1.0 cr) *Note: previously Bio 120 + 140. Prereq for Chem 343.*
- Bio 315:** Molecular Biology (1.0 cr) *Note: previously Bio 220. Prereq for Chem 343.*
- Phys 120:** Principles of Physics I (1.0 cr) *Note: Prereq for Chem 440.*
- Math 151:** Calculus I (1.0 cr) *Note: Prereq for Chem 440*

*Students who have taken Chem 320 prior to the fall 2006 do not need to take Chem 310