

## Pharm.D. Pre-Requisite Course Requirements\*

### DESIGNATED COURSES AT NORTHLAND COLLEGE

Rev. 6/1/09

- Biology:** Biology 115 (Concepts of Biology) **AND** 238 (Cell Biology) **AND** 245 (Mammalogy) (preferable) or 360 (Vertebrate Physiology). **A one-semester general biology survey course, and anatomy, physiology, and microbiology, do not count toward this requirement.**
- Chemistry:** Chemistry 110 (General Chemistry) **AND** Chemistry 220-220L and 221-221L (Organic Chemistry I - Organic Chemistry I Lab, and Organic Chemistry II - Organic Chemistry II Lab)
- Calculus:** Math 140 (Calculus I), **but see the [Important Information About Calculus link at http://www.pharmacy.wisc.edu/admissions/pharmd/calculus.cfm](http://www.pharmacy.wisc.edu/admissions/pharmd/calculus.cfm)**
- Physics:** Physics 110-111 (General Physics I-II)
- Microbiology:** Biology 331 (Microbiology) **(beginning Fall 2011)**
- Communication:** English 111 (College Writing), **or** a score of at least 4 on the AP English: Language & Composition exam, **or** a score of at least 4 on the AP English: Literature & Composition exam
- Economics:** Economics 221 (Microeconomics)
- Statistics:** Statistics- most 3 credit statistics courses will satisfy **(beginning Fall 2011)**
- Social Science:** Sociology 111 (Introduction to Sociology)
- Behavioral Science:** Psychology 110 (General Psychology)
- Ethnic Studies:  
(Diversity Studies)** 3 credits (*may* count also as history or humanities [below], if the course qualifies as such)
- Additional course work:** A total of at least 62 transfer credits by the time of enrollment in the School of Pharmacy. **(68 transfer credits for Fall 2011 Admission)**

\* **Pre-Pharm.D. students** may wish to include in their preparatory course work, if there is time/space, some of the non-professional curriculum **graduation** requirements: **2 credits of any kind of history, 3 credits of humanities electives**, and sufficient free-choice electives. Non-professional curriculum **graduation** requirements that are not completed prior to enrollment in the School of Pharmacy must be completed prior to graduation of the Pharm.D. program.

**NOTE: Credit by exam** will be granted **only in accordance with UW-Madison policies**. If students have been granted credit by another college or university for College Board Advanced Placement (**AP exams**), College Level Examination Program (**CLEP exams**), or International Baccalaureate (**IB exams**), it is imperative that they be aware of the UW-Madison credit policies. This applies also to **retroactive foreign language credits**. Students should **not** assume that these types of credits that may have been granted by another college or university will be accepted by UW-Madison.

**NOTE: Pharm.D. applicants** must take the Pharmacy College Admission Test (PCAT). International students and U.S. permanent residents whose native language is not English and who are applying for admission to the Pharm.D. program must submit scores from the Test of English as a Foreign Language (TOEFL). To be considered for admission, individuals must earn a score of at least 100 on the internet-based TOEFL (IBT).