

## Descriptions of Pre-Pharmacy courses

### Mathematics and Physical Sciences

- Calculus: one course. The course should include differential and integral calculus for science majors.
- Statistics: one course. Please note that business statistics is not acceptable.
- General Chemistry: two courses with laboratory experience for science majors. The courses should include inorganic chemistry and qualitative analysis.
- Organic Chemistry: two courses with labs for science majors. If the school offers less than a one-year course, the student must complete the second semester at another institution.
- Physics: one course with lab, for science majors.

### Biological Sciences

- General Biology: two courses for science majors along with labs (excluding courses in human anatomy, human physiology, botany and microbiology). If the school offers less than a one-year course, the student must complete the second semester at another institution.
- Microbiology: one course with lab (fundamentals of microbiology for science majors).
- Human Anatomy: one course for science majors with lab is preferred.
- Human Physiology: one course for science majors (excluding plant, cell and marine physiology). Human physiology with lab is preferred.
- Molecular or Cell Biology: one upper division course for science majors.
- Biochemistry: one upper division course for science majors.

### Genetics

- One course. May be taken up until the beginning of the 2<sup>nd</sup> pharmacy year.

### Psychology or Sociology

- One course in general psychology or introductory sociology. Course must encompass a complete overview of theories and models related to psychology or sociology. Courses related to narrow or specific aspects of psychology or sociology will not be accepted.

### Economics

- One course in economics. Course may be either micro or macro economics.

## English

- One course in either college composition or literature. Gordon rule courses will not meet the prerequisite for English coursework; English courses must be taken with the English Department at or above the level of English Composition or English Literature (ESL courses will not be accepted). Composition courses should focus on the conventions of the English language to include grammar and mechanics applied to different venues of writing such as expository writing, technical writing, poetry, research reporting, essays and/or comparison/contrast papers. Literature courses should focus on the critical analysis of literature to include plot, theme, setting, characterization, and genres of literature to include nonfiction, fiction, poetry, plays, short stories, novels, etc.

## General Education Courses

In addition to the mandatory courses listed above, a minimum of 9 semester hours of general education elective courses are required as part of the pre-pharmacy curriculum. These courses prepare graduates to contribute to a global, diverse, and technological society. General education credit will be granted for courses completed in the Arts & Humanities and Behavioral & Social Sciences. At least one course must focus on diversity and culture and/or social and ethical issues. Below are examples of acceptable courses:

- **Humanities & Arts:** Examples include but are not limited to classics, literature, foreign languages, philosophy, linguistics, rhetoric, and history. Other humanities courses will be reviewed on a case-by-case basis. Humanities courses are in addition to the required English course.
- **Behavioral & Social Sciences:** Examples include but are not limited to communication, cultural anthropology, economics, human geography, planning, political science, psychology, and sociology. Other behavioral and social sciences courses will be reviewed on a case-by-case basis. Behavioral & social science courses are in addition to the required psychology/sociology course.