



SAN DIEGO STATE  
UNIVERSITY

## Health Professions Advising Office Pharmacy School Academic Preparation

These courses meet the requirements for most pharmacy schools and for preparation for the PCAT. Pharmacy schools generally do not accept AP credit or on-line courses for these *required* courses. **Be sure to check each pharmacy school's requirements.**

No pharmacy school requires a science major, nor are science majors given extra consideration in the admission process. Becoming a competitive pharmacy school applicant also requires more than a solid GPA and PCAT score. **Be sure you are meeting regularly with your HPAO advisor.**

### **One year General Chemistry with Labs**

CHEM 200                      General Chemistry

*Prerequisites: Knowledge of introductory chemistry as demonstrated by completion of CHEM 100 with a grade of C or better, or satisfaction of the Entry-Level Mathematics requirement and qualification on the Chemistry Department Placement Examination.*

CHEM 201                      General Chemistry

*Prerequisite: CHEM 200 or 202 with grade of C or better*

### **One year of Organic Chemistry with Labs**

CHEM 232/232L              Organic Chemistry

*Prerequisite: CHEM 201 with grade of C or better and credit or concurrent enrollment in CHEM 232L*

CHEM 432/432L              Organic Chemistry

*Prerequisite: CHEM 232 with a grade of C or better and credit or concurrent enrollment in CHEM 432L*

### **One year of Biology with Labs**

BIOL 203/203L Principles of Cell & Molecular Biology

*Prerequisite: Credit/ concurrent registration in CHEM 200 or 202 and satisfaction of the SDSU Written Communication Assessment*

BIOL 204/204L Principles of Organismal Biology

*Prerequisite: Satisfaction of the English placement test requirement. Recommended completion of BIOL 203/203L*

### **One year of Physics with Labs**

PHYS 180A/182A              Fundamentals of Physics I/Lab

*Prerequisite: Satisfaction of the Entry-level Mathematics requirement. Recommended concurrent registration in PHYS 182A*

PHYS 180B/182B              Fundamentals of Physics II/Lab

*Prerequisite: Satisfaction of the Entry-level Mathematics requirement, PHYS 180A. Recommended concurrent registration in PHYS 182B*

**OR**

PHYS 195/195L Principles of Physics/Lab

*Prerequisites: High school physics or PHYS 180A. MATH 150 with a minimum grade of C*

PHYS 196/196L Principles of Physics/Lab

*Prerequisites: PHYS 195. MATH 151*

### **One semester of Mathematics (One year required by some schools)**

MATH 124                      Calculus for Life Sciences

*Prerequisite: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completions of MATH 141 with a grade of C (2.0) or above; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Precalculus Proficiency Examination. Proof of completion of prerequisites required*

**OR**

MATH 150                      Calculus I

*Prerequisite: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completions of MATH 141 with a grade of C (2.0) or above; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Placement Assessment. Proof of completion of prerequisites required*

### **One semester of Statistics**

STAT 250 Statistical Principles and Practices\*  
*Prerequisite: Satisfaction of the Entry-level Mathematics requirement*

**OR**

BIOL 215 Biostatistics\*  
*Prerequisites: Credit or concurrent registration in BIOL 203, 203L, or 204, 204L and MATH 122, 124, 141, or 150*

\*Other statistics courses may also meet this requirement. Check with HPAO.

### **One year of English**

RWS 100 College Composition\*  
*Prerequisite: Satisfaction of the SDSU writing competency requirement*

RWS 200 Intermediate Composition\*  
*Prerequisite: Satisfaction of the SDSU writing competency requirement and RWS 100 or equivalent*

\*Other composition courses may also meet this requirement for some pharmacy schools. Check with HPAO.

### **One semester of Public Speaking**

COMM 103 Oral Communication

**OR**

COMM 160 Argumentation

### **One semester of Anatomy**

BIOL 212 Human Anatomy  
*Prerequisite: Grade of C or better in Biology 100, 203, or 211.*

### **One semester of Physiology**

BIOL 336 Principles of Human Physiology  
*Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.*

### **One semester of Economics**

ECON 101 Principles of Economics (Macroeconomics)\*  
*Prerequisite: Satisfaction of the Entry-level Mathematics requirement*

**OR**

ECON 102 Principles of Economics (Microeconomics)\*  
*Prerequisite: Satisfaction of the Entry-level Mathematics requirement*

\*The requirement of Macroeconomics or Microeconomics varies by school.

### **Courses required by some schools (Be sure to check pre-requisites)**

PSY 101 Introductory Psychology  
CHEM 365 Biochemistry, Cell & Molecular Biology

*Prerequisites: BIOL 203, 203L and CHEM 232, 232L*

MATH 151\* Calculus II

*Prerequisite: Mathematics 150 with minimum grade of C (2.0). Proof of completion of prerequisite required.  
(\*Required for UCSD School of Pharmacy)*

