



## HEALTH PROFESSIONS ADVISING OFFICE

### Medical School Academic Preparation

These courses meet the requirements for most medical schools (MD, DO, DPM) and for preparation for the MCAT. Medical schools generally do not accept AP credit or on-line courses for these *required* courses. *Be sure to check each medical school's requirements.*

#### **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 semester of Biochemistry**

CHEM 365                    Biochemistry, Cell & Molecular Biology

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

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

BIOL 203/203L            Principles of Cell & Molecular Biology

*Prerequisite: CHEM 200 and satisfaction of the English placement test requirement*

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 with a minimum grade of C.*

PHYS 196/196L          Principles of Physics/Lab

*Prerequisites: PHYS 195. MATH 151*

## **One year of Math and Statistics\***

MATH 124                      Calculus for Life Sciences  
*Prerequisite: Satisfaction of the Entry-level Mathematics requirement*  
OR

MATH 150                      Calculus I  
*Prerequisites: 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.*

STATS 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 124*  
*\*Other statistics courses may also meet this requirement. Check with HPAO.*

## **One year of English**

### **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, RWS 100*

## **Courses of interest to pre-medical students (Be sure to check pre-requisites.)**

**PSY 101\***                      **Introductory Psychology**  
**SOC 101\***                      **Introductory Sociology: Study of Society**  
**SOC 102\***                      **Introduction to Social Problems**  
**BIOL 212\***                      **Human Anatomy**

**\*Helpful for MCAT 2015**

BIOL 215                      Biostatistics  
BIOL 249                      Careers in Health Professions  
BIOL 250A                      Topics in Medicine  
BIOL 350                      General Microbiology  
BIOL 352                      Genetics and Evolution  
BIOL 474                      Histology  
BIOL 485                      Principles of Immunology  
BIOL 497                      Research  
BIOL 585                      Cell and Molecular Biology  
BIOL 554                      Molecular Virology  
BIOL 576                      Developmental Biology  
BIOL 590                      Physiology of Systems  
BIOL 436                      Physiology Lab  
PHIL 330                      Medical Ethics  
PH 305                      Medical Care Organization and Delivery  
PH 362                      International Health  
PSY 456                      Psychology of Death and Bereavement

