



SAN DIEGO STATE
UNIVERSITY

Health Professions Advising Office Optometry School Academic Preparation

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

No optometry school requires a science major, nor are science majors given extra consideration in the admission process. Becoming a competitive optometry school applicant also requires more than a solid GPA and OAT 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 semester of Organic Chemistry with Lab

CHEM 232/232L Organic Chemistry

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

One year of Biology with Labs

BIOL 203/203L Principles of Cell & Molecular Biology

Prerequisite: CHEM 200 or 202 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 semester of Microbiology

BIOL 350 General Microbiology

Prerequisites: Biology 203, 203L, 204, 204L; Chemistry 232, 232L

One semester of Biochemistry

CHEM 365 Biochemistry, Cell & Molecular Biology

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

One semester of Anatomy with Lab

BIOL 212 Human Anatomy

Prerequisite: Grade of C or better in Biology 100, 203, or 211.

One semester of Physiology with Lab

BIOL 261 Human Physiology

Prerequisites: Biology 212. Credit or concurrent registration in Chemistry 102 (or Chemistry 100 and credit or concurrent registration in Chemistry 130).

OR

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.

BIOL 436 Human Physiology Laboratory
Prerequisite: Credit or concurrent registration in Biology 336 or 590

OR

BIOL 590 Physiology of Human Systems
Prerequisite: Biology 366, Chemistry 365, Physics 180B, 182B

BIOL 436 Human Physiology Laboratory
Prerequisite: Credit or concurrent registration in Biology 336 or 590

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 year of Math and Statistics (one semester of each)

MATH 124 Calculus for Life Sciences

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.

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.

AND

Generally any statistics course except business statistics. Be sure to check each course's prerequisites. STATS 250 or ECON 201 or PSY 280 or BIOL 215

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

BIOL 485 Principles of Immunology **(Required by UC Berkeley)**

Prerequisite: BIOL 203, BIOL 203L, CHEM 365, credit or concurrent registration in BIOL 366



GMCS 323

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