Department of Biological Sciences
Bachelor of Science
Major in Biology – Pre-Optometry Curriculum

I. **General Information:**

A. Outstanding students may be considered for admission to optometry school after three years of college work. However, you must obtain a B.S. degree before you will be granted O.D. degree at the University of Houston Optometry School. All students must contact the optometry school of their choice before applying in order to have the latest prerequisites.

B. Most optometry schools recommend a major in one of the sciences. Courses in business, psychology and sociology are encouraged as electives.

C. The student, in consultation with his/her advisor, should clearly define the total requirements for admission to a specific optometry school. These include transcripts, interviews, the Optometry Admissions Test and letters of recommendation.

D. General education requirements must also be met, as specified in the general catalog of the college. These include 45 hours of courses at the 300 level or higher.

E. Most successful Pre-Optometry students in recent years have had GPAs of 3.5 or higher.

F. Pre-Optometry students need to score well on the nationally administered Optometry Admission Test.

G. Pre-Optometry students should consider joining the university Honors Program and the Caduceus Society (organization for pre-health majors).

H. Students must have a minimum grade point average of 2.2 for all biology courses on the major contract to graduate as a biology major.

(OVER)
Biology Requirements (45 hours):

GB 140 - 141...........Principles of Biology and Lab......................... 4
ZO 214-215............Biology of Animals and Lab............................ 4
BO 212-213..............Biology of Plants and Lab............................. 4
MC 316-317............Microbiology and Lab..................................... 4
GB 425...................General Genetics........................................ 3
EB 480...................Principles of Ecology..................................... 3
ZO 515 - 516...........Vertebrate Structure and Development and Lab 5
ZO 762...................Environmental Physiology............................. 3

OR
ZO 570...................Mammalian Physiology.................................. 3

OR
ZO 560...................Endocrinology............................................... 3

OR
ZO 717..............Comparative Animal Physiology......................... 3

GB 480...................Senior Experience in Biology.......................... 1
Upper division biology electives.................................................. 14
(CH 560 -561 may count as a biology elective)

Required Physical Science and Math Courses (33 hours)

PH 140 - 141...........College Physics I and Lab............................. 5
PH 143 - 144...........College Physics II and Lab............................. 5
CH 123 - 124...........Chemistry I and Lab.................................... 5
CH 126 - 127...........Chemistry II and Lab................................... 5
CH 370 - 371...........General Organic Chemistry and Lab.............. 5
CH 560..............Biochemistry.................................................. 3
MA 165..............Basic Calculus............................................... 5

OR
MA 161..............Calculus....................................................... 5

Required Psychology Courses (6 hours)

PY 100..............Introductory Psychology.................................. 3
PY 520..............Statistics....................................................... 3