

## CURRICULUM CHECKSHEET FOR PRE-OPTOMETRY PROGRAMS

MAJOR: Any  
 DEPARTMENT: Any  
 GEORGIA SOUTHERN UNIVERSITY

NAME: \_\_\_\_\_  
 SSN: \_\_\_\_\_

There is no major in "Pre-Optometry". A student desiring to go to optometry school should pursue a course of study leading to a bachelor's degree in an academic area chosen according to his/her interests and aptitudes.

### Pre-Optometry Academic Advisors Are:

Dr. Lance McBrayer – Biology majors  
 Dr. Jeff Orvis or Dr. Todd Deal – Chemistry majors  
 Mr. Tony Deal – Physics majors

A pre-optometry advisor, in addition to the academic advisor in the chosen major, should advise students with majors in other than biology, chemistry, or physics. Students must be careful to complete the required courses for acceptance into the optometry school of their choice, as well as those required for the chosen major.

### **Courses for Pre-Optometry**

As stated above, Pre-Optometry is not a major, but a program of study. The courses listed below are generally those required for acceptance into optometry schools, as well as the GSU core requirements. The required list is for Southern College of Optometry which admits Georgia residents.

#### **Biology Courses (15-23 hrs)**

#### **Chemistry Courses (16-20 hrs)**

|                    |                       |      |  |           |                    |      |
|--------------------|-----------------------|------|--|-----------|--------------------|------|
| BIOL 2107/2107L    | Prin. Biology I/Lab   | 4hrs |  | CHEM 1145 | Prin. Chemistry I  | 4hrs |
| BIOL 2108/2108L    | Prin. Biology II/Lab  | 4hrs |  | CHEM 1146 | Prin. Chemistry II | 4hrs |
| BIOL 3130          | Principles of Genetic | 3hrs |  | CHEM 3341 | Org. Chemistry I   | 4hrs |
| BIOL 3240          | Microbiology          | 4hrs |  | CHEM 3342 | Org. Chemistry II  | 4hrs |
| Biology Electives* | See recommended*      | 8hrs |  | CHEM 5541 | Biochemistry I**   | 4hrs |

\*Biology electives recommended include: Comparative Animal Physiology/Lab (BIOL 5230/5210), and Comparative Vertebrate Anatomy (BIOL 5241); others should include courses such as Developmental Biology (BIOL 5146), Human Genetics (BIOL 5148), and Histology (BIOL 5240).

\*\*Molecular Biology can substitute for Biochemistry I (can be taken for Biology major's credit). Biochemistry I is required by some schools.

#### **Physics and Mathematics Courses (15-23 hrs)**

#### **Non-Science Requirements (3 hrs)**

|                |                     |      |           |           |                   |      |
|----------------|---------------------|------|-----------|-----------|-------------------|------|
| MATH 1113      | Pre-Calculus        | 4hrs |           | PSYC 1101 | Intro. Psychology | 3hrs |
| MATH 1441      | Calculus I          | 4hrs |           |           |                   |      |
| MATH 2442      | Calculus II*        | 4hrs |           |           |                   |      |
| MATH 2231      | Intro. Statistics I | 3hrs | <b>OR</b> |           |                   |      |
| PHYS 2111/1113 | Physics I/Lab**     | 4hrs |           |           |                   |      |
| PHYS 2212/1114 | Physics II/Lab**    | 4hrs |           |           |                   |      |

\*Calculus II is required by some schools

\*\*Note: PHYS 1111/1112 – Intro Physics I & II (noncalculus-based) are acceptable, but not recommended.

### **\*\*\*Optometry Admissions Test (OAT)**

This test should be taken in the Spring semester (**April**) of the Junior year, for EARLY DECISION PROGRAMS, but NOT before the science courses listed above have been completed.

\*\*\*The OAT requires substantial amounts of appropriate preparation and study time. A Pre-Optometry student is well advised to diligently prepare for these exams well in advance of the testing date!

**SEE REVERSE FOR RECOMMENDED COURSE SEQUENCE TO BE PREPARED FOR  
OAT BY THE SPRING SEMESTER OF YOUR JUNIOR YEAR**

Check the following websites for specific medical and dental school requirements:

Pre-Optometry: [www.opted.org](http://www.opted.org)

**RECOMMENDED COURSE SEQUENCE IN ORDER TO BE PREPARED FOR OAT  
DURING THE SPRING SEMESTER OF YOUR JUNIOR YEAR**

|  |  |
|--|--|
| <b>FALL SEMESTER – FRESHMAN YEAR</b>         | <b>SPRING SEMESTER – FRESHMAN YEAR</b>       |
| ENGL 1101 – Comp I                           | ENGL 1102 – Comp II                          |
| MATH 1113 – Pre-Calc                         | MATH 1441 – Calc I                           |
| CHEM 1145 – Chem I                           | CHEM 1146 – Chem II                          |
| BIOL 2108/2108L – Prin. Biology I/Lab        | BIOL 2108/2108L – Prin. Biology II/Lab       |
| Core Electives                               | Core Electives                               |
| <b>FALL SEMESTER – SOPHOMORE YEAR</b>        | <b>SPRING SEMESTER – SOPHOMORE YEAR</b>      |
| BIOL 3130 – Principles of Genetics           | BIOL 3000+ Elective                          |
| CHEM 3341 – Organic Chem. I                  | CHEM 3342 – Organic Chem. II                 |
| PHYS 2211/1113 – Calc-based Physics I        | PHYS 2212/1114 – Physics II                  |
| MATH 2442 – Calc II or elective              | BIOL 5241 – Comp. Vertebrate Anatomy         |
| Core Electives                               | Core Electives                               |
| <b>FALL SEMESTER – JUNIOR YEAR</b>           | <b>SPRING SEMESTER – JUNIOR YEAR</b>         |
| BIOL 5230/5210 – Comp. Animal Physiol./Lab   | BIOL Elective or CHEM 5542 – Biochemistry II |
| BIOL 3240 – Biology of Microorganisms        | PSYC 3140 or STAT 2231 – Statistics          |
| CHEM 5541 – Biochemistry I or Molecular Biol | Core Electives                               |