

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

ID#: \_\_\_\_\_

**IN EFFECT FALL 2009**

**PRE-DENTISTRY (PDEN), PRE-MEDICINE (PMED) & PRE-OPTOMETRY (POPT)  
CURRICULUM**

**FRESHMAN YEAR**

ENGL 1100 English Comp I..... 3	ENGL 1120 English Comp II.....3
MATH 1610 Calculus I..... 4	HIST 1010 World History I.....3
CHEM 1030 Fund. of Chemistry I** ..... 3	CHEM 1040 Fund. of Chemistry II** .....3
CHEM 1031 Chem Lab** ..... 1	CHEM 1041 Chem Lab**..... 1
<b>BIOL 1020/1021 Principles of Biology ..... 4</b>	<b>BIOL 1030/1031 Organismal Biology.....4</b>
SCMH 1890 Pre-Health Orientation ..... 1	COMP 1000* .....2
16	16

**SOPHOMORE YEAR**

CHEM 2070 Organic Chem I ..... 3	CHEM 2080 Organic Chem II.....3
CHEM 2071 Organic Lab..... 1	CHEM 2081 Organic Lab ..... 1
HIST 1020 World History II..... 3	<b>BIOL 3000 Genetics .....4</b>
PHYS 1500/1501 Physics I..... 4	PHYS 1510/1511 Physics II.....4
ENGL 2200 World Literature I..... 3	ENGL 2210 World Literature II.....3
COMM 1000 Public Speaking..... 3	
17	15

**JUNIOR YEAR**

<b>BIOL 3200 Microbiology..... 4</b>	<b>BIOL4100 Cell Biology .....3</b>
STAT 2510 Statistics for Biol.....3	<b>BIOL4101 Cell Biology Lab.....2</b>
PSYC 2010 Intro. to Psychology.....3	PHIL1030 Ethics & Health Science.....3
CORE FINE ARTS.....3	CORE GROUP 2 SOCIAL SCIENCE.....3
	<b>Major .....4</b>
13	15

**SENIOR YEAR**

<b>Major ..... 11</b>	<b>Major.....10</b>
<b>BIOL 4410 Vertebrate Development ..... 5</b>	Elective (BCHE 5180, if POPT)..... 4
16	14

**TOTAL HOURS 122**

Long range schedules for COSAM courses are online at [www.auburn.edu/cosam/students/registration/](http://www.auburn.edu/cosam/students/registration/)  
Courses in **BOLD** will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin, under Core Curriculum.

Students not prepared for MATH 1610 will meet with advisor to determine appropriate math course.

\*\*The Chemistry 1110/1111-1120/1121 sequence can substitute for CHEM1030/1031-1040/1041. See advisor for details.

\*Elective hours may be substituted upon passing COMP 1000 competency test. See

[http://frontpage.auburn.edu/comp1000/placement\\_exam.htm](http://frontpage.auburn.edu/comp1000/placement_exam.htm) for information about the test.

At the end of the sophomore, or beginning of junior year, all students must declare a major. Students must complete all requirements for that major prior to graduation.

Students planning a physics major should consult with the pre-health advisor.

## SCIENCES AND MATHEMATICS PRE-HEALTH MAJORS

**BIOMEDICAL SCIENCES:** BCHE 5180, 5190; BIOL 5500; 5600; 3010 or 4000; two credits of undergraduate research; and 4 hours professional elective. Professional electives are foreign language or any 3000+ level course in BIOL, CHEM or PHYS. A foreign language such as Spanish is strongly recommended.

**CHEMISTRY:** Please refer to the CHEM, B.A. model designated for PMED, PDEN & POPT concentrations.

**MICROBIOLOGY:** BIOL 4200, 5220, 5230, 5500, and 12 hours from BIOL 4000, 4970 (maximum of 4 hours), 4980 (maximum of 4 hours), 5110, 5190, 5210, 5340, 5501, 5521, 5600, 5660, 5700, BCHE 5180, 5181, 5190, 5191 and PLPA 3000.

**PHYSICS:** MATH 1620, 2630, and 2690; PHYS 1607 & 1617 (in place of PHYS 1500 & 1510), PHYS 2200, 2100, 2300, 3100, 3200, and, 3500

**ZOOLOGY:** Select 11 hours from BIOL 3030, 3060, 4010, 4020, and select 14 hours from 3010, 4000, 5110, and 5600.

### **COSAM Science Majors Curriculum Sheet Option:**

The following two course series is recommended as electives for those students seriously considering a career in teaching in secondary schools (grades 6-12) or junior colleges. These courses can be applied towards the alternative fifth year masters degree for becoming a licensed science teacher. Please contact the secondary science education program coordinator in the Department of Curriculum and Teaching for more information and permission to take these courses. Seating is limited each semester.

\*CTSE 4090: Science Methods I (fall term)

OR

\*CTSE 4100: Science Methods II (spring term)

RSED 5000: Study of Exceptionality

\*Pre-requisite requirement: 2.5 'un-gapped' grade point average in science and 2.5 'un-gapped' overall grade point average; commitment to an eight hour weekly field component in local schools