Pre-Health
Prerequisite Course Numbers

In general, most schools require:

**ENGLISH** – 6 semester hours of English composition. Additional courses in literature and speech may be required.

**MATH** – 2 semesters or 3 quarters of college math. May include statistics or computer science. We recommend you have math up through pre-calculus (MA 106). **UAB School of Optometry** requires a course in statistics and calculus. **UAB School of Dentistry** strongly recommends analytical geometry and calculus.

**CHEMISTRY** – 2 semesters or 3 quarters of General Chemistry with lab (CH 115(116lab), 117(118lab)). *To be eligible to register for CH 115, a student must have completed CH 100 OR a full year of HS chemistry with a grade of C or higher and completed MA 106 with a C or higher or be concurrently enrolled in MA 106 or higher.

**BIOLOGY** – 2 semesters or 3 quarters of Introductory Biology with lab (BY 123,124). **UAB School of Dentistry** requires 1 additional course. **UAB School of Optometry** requires a course in Microbiology (BY 271).

**ORGANIC CHEMISTRY** – 2 semesters or 3 quarters with lab (CH 235(236lab), 237(238lab)). **UAB School of Optometry** requires Biochemistry (CH 460). **UAB School of Dentistry** strongly recommends an additional course in Biochemistry (CH 460).

**PHYSICS** – 2 semesters or 3 quarters with lab (PH 201(211lab), 202(212lab) – non calculus-based OR PH 221(231lab), 222(232lab) – calculus-based).

*Placement of entering freshmen in physics would be based on their entering math placement (see Math Placement information for entering Freshman) which is based on SAT & ACT math sub-scores plus high school GPA. For example, entering students would have to qualify for MA 125 in order to take PH 201, since MA 106 or MA 107 is pre-requisite for PH 201. Similarly, students would have to CLEP out or have AP credit for Calculus I (MA 125) to directly enroll in PH 221. In both cases, these are fairly high standards. If you do not meet the pre-requisites for PH 201 and PH 221, you can begin with Physics 100 or take necessary Math courses to satisfy pre-requisites of PH 201 and PH 221. Talk with your advisor to determine if College Physics I (PH 201) or General Physics I (PH 221) is a requirement for your major.

Additional courses in Biochemistry (CH 460), Cell Biology (BY 330), Embryology (BY 314), Histology (BY 327), Microbiology (BY 271), Endocrinology (BY 420), Human Physiology (BY 409), Genetics (BY 210), or Human Anatomy (BY 115) are highly recommended.

Other courses in psychology, sociology and computer science may be required. **UAB School of Optometry** requires 1 semester of psychology and 2 semesters of additional courses in any social and behavioral science. **UAB School of Dentistry** encourages additional courses to enhance manual dexterity (sculpting, painting, etc.). **You are advised to check with the Admissions Office of the specific schools to which you are applying for further details.**