Premedical, Honors Program, & GTX 4-Year Planner 2016-2017

This 4-Year Planners offers a recommended course sequence for Honors Program students preparing for Medical School. As you pursue your Baylor education, keep in mind the requirements for your Degree and Major, the prerequisites for Medical School, and the Honors Program.

Why study Great Texts?

Because technical information is continually becoming outdated, a physician's most urgent need is often practical wisdom. Discerning how to connect specific people and situations to general principles (practical wisdom), is one primary skill developed by the study of Great Texts. By reading texts from the intellectual tradition that gave rise to modern science and medicine, you can become a scientist, rather than a mere technician. Discover the Great Conversation that unites the discernment of truth with growth in moral imagination.

Prerequisite coursework found on this planner indicates only the recommended minimum requirements for most medical schools in the U.S. Students who perform well in additional science courses are more likely to be viewed as outstanding professional school applicants. Some prerequisites may be in progress or planned for the following semester when application is made. However, this policy varies by school. Applicants should be familiar with the intricacies of the medical profession in order to have the best chance for admission. Selection criteria include **Academic Performance** (such as the overall GPA, BCPM GPA [Biology, Chemistry, Physics, Math & Statistics], MCAT score, etc.), **Professional Preparation** (experiential background, community service, and volunteer work), and **Other Factors** (including research, internships, personal maturity, professional preparation, the personal statement essay, etc.). Medical schools selection committees will assess all characteristics of each applicant, cognitive as well as non-cognitive. Factors such as high intellectual ability, evidence of a strong interest in medicine, a high level of personal integrity, varied and relevant experiences, and demonstrated leadership and service to others indicate a student's preparedness for both medical school admission and navigation of the medical school curriculum once accepted.

[1] **PHP 1105 is required for students who wish to participate in the Committee Interview process**; PHP/MH 1106 or 1105 are prerequisites for PHP 2105. Prehealth Professions (PHP) classes are highly recommended electives for professional school preparation. Most PHP classes are offered in both fall and spring semesters.

[2]Students choosing **BIO 4307** for the Biochemistry requirement may take it following CHE 3331. However, **CHE 4341** requires CHE 3331 and 3332, and is required for certain majors/minors.

*While some medical schools will accept either Calculus (MTH 1321), or Statistics (STA 1380 [Elementary Statistics] or 2381[Introductory Statistical Methods]), both Physics (1408/1409 or 1420/1430) sequences have prerequisite requirements of MTH 1320 (Precalculus) or MTH 1321 respectively.

** Although BIO 2306 (Genetics) is not an upper level BIO for Baylor University curriculum, professional schools accept it as such in the application prerequisites requirements. It is highly recommended by most medical schools in the U. S. The 2 semesters of advanced BIO and 2 semesters of PHY can be switched to accommodate students' course credits, majors and/or special programs.

***The BIO 2106 lab may not be required for all majors. It is the student's choice whether or not to include it in their curriculum.

****Suggested Advanced Level BIO courses include, but are not limited to:**
BIO 3330 (Medical Genetics), BIO 3422 (Human Physiology), BIO 3425 (Human Anatomy), BIO 4301(Immunology), BIO 4306 (Molecular Genetics), BIO 4106 (Molecular Genetics Lab), BIO 4307(Biochemistry& Physiology of the Cell), BIO 4107 (Lab), BIO 4401 (General Microbiology), BIO 4426 (Vertebrate Histology), etc.

[+]**WHICH BIOLOGY CLASS SHOULD YOU TAKE?** (Guidance from the Biology Dept.)

1. Students who score a 5 on the AP Biology exam AND who believe that their BIO knowledge is strong
   —> progress immediately to BIO 2306 (override from Biology Dept. if score not yet available)
   If no seats are open in BIO 2306, students should begin their Physics sequence
2. Students who completed a strong BIO course during one of the last 2 years of high school (whether AP or not)
   —> enroll in BIO 1305 Honors.
3. Students who have *not* completed high school BIO coursework in the last 2 years of high school or who for any reason feel ill-prepared to join BIO 1305 Honors
   —> enroll in BIO 1305 regular sections.

HONORS PROGRAM REQUIREMENTS	
Lower-level Honors Units[++] • FYS strongly recommended during first semester • **Honors Biology, Chemistry, Physics, Psychology, and/or Calculus recommended for students with sufficient background or ability**	5 Units (usually during the first 4 semesters)
Great Texts, GTX 2301 & 2302	2 semesters
Honors Colloquium, HON 3200	1 semester
Upper-level Honors Units[++] • 3000- and 4000-level classes for Honors credit • Research Design, HON 3455, or a second Honors Colloquium, HON 3201, can count towards these units	3 Units (usually during the last 4 semesters)
Advanced Reading and Research, HON 3100 & 3101	2 semesters
Thesis Hours, HON 4V87 • Usually taken for 2 credit hours each semester of senior year.	2 semesters

++These may overlap with recommended Premedical courses

Application Websites: **www.aamc.org** **www.amcas.org** **www.tmdsas.com**

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Prepared by Linda B. Haynes and Michelle Savoie | Updated July 2016

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2016-2017

Standard Honors Thesis Track

Students who follow this track will complete their thesis during their senior year, possibly after submitting Medical School applications.

FRESHMAN

FALL			SPRING		
Pre-Medical	*GTX*	*Honors*	*Pre-Medical*	*GTX*	*Honors*
BIO 1305-Modern Concepts of Bioscience+	GTX 1301 (Optional)	First Year Seminar	BIO 1306-Modern Concepts of Bioscience+	GTX 2301	Lower-level Unit++ (GTX 2301)
BIO 1105-Modern Concepts of Bio Lab		Lower-Level Unit++	BIO 1106-Modern Concepts of Bio Lab		Lower-level Unit++
CHE 1301-Basic Principles of Modern Chem I			CHE 1302-Basic Principles of Modern Chem II		
CHE 1101-General Chemistry Lab I			CHE 1102-General Chemistry Lab II		
MTH 1321-Calculus I*			STA 2381-Intro Statistical Methods (preferred)*		
PHP 1105 (Required for PreHealth Committee)[1]					

SOPHOMORE

FALL			SPRING		
Pre-Medical	*GTX*	*Honors*	*Pre-Medical*	*GTX*	*Honors*
BIO 2306-Genetics or other advanced BIO**	GTX 2302	Lower-Level Unit++ (GTX 2302)	BIO-Advanced-level BIO****	GTX 3000-4000 Level Elective	HON 3200 (Colloquium)
CHE 3331-Organic Chemistry I		Lower-Level Unit++	CHE 3332-Organic Chemistry II		Lower-Level Unit++
PSY 1305			CHE 3238-Organic Chemistry Lab		
PHP 2105[1]			SOC 1305		
			Begin MCAT Preparation		

JUNIOR

FALL			SPRING		
Pre-Medical	*GTX*	*Honors*	*Pre-Medical*	*GTX*	*Honors*
BIO 4307-Biochemistry & Phys. Of the Cell[2] **-or-** CHE 4341-General Biochemistry[2]	GTX 3320	HON 3100	BIO-Additional Advanced-Level BIO recommended****	GTX 3321	HON 3101
PHY 1408-General Physics for Natural & Behavioral Physics I **-or-** 1420 General Physics I		Upper-Level Unit++	PHY 1409-General Physics for Natural & Behavioral Physics II **-or-**1421 General Physics II		Upper-Level Unit++
Continue MCAT Preparation			Take MCAT Exam		
Begin Prehealth Committee Process[1]			Begin Medical School Applications		

SENIOR

FALL			SPRING		
Pre-Medical	*GTX*	*Honors*	*Pre-Medical*	*GTX*	*Honors*
Complete Degree Requirements	GTX 4320	HON 4V87 (2 hours)	Complete Degree Requirements	GTX 4321	HON 4V87 (2 hours)
	GTX 3000-4000 Level Elective (Unless GTX 1301 is taken)	Upper-Level Unit++	Graduate	GTX 4343	Defend Thesis

Note: Adjustments can be made to either the Premedical or Honors course sequence, but students are encouraged to discuss such adjustments with the appropriate advisor ahead of time

MCAT Sections

- Biological & Biochemical Foundations of Living Systems
- Chemical & Physical Foundations of Biological Systems
- Psychological, Social, & Biological Foundations of Behavior
- Critical Analysis & Reasoning Skills

In order to prepare for the MCAT2015, students should consider the content in each section and plan coursework accordingly. Knowledge and use of the concepts in psychology, sociology, biology, research methods, and statistics that provide a solid foundation for the behavioral and socio-cultural determinants of health and health outcomes (will be tested). **Recommended courses include: Psychological, Social, & Biological Foundations of Behavior section includes PSY 1305 (Introductory Psychology), SOC 1305 (Introduction to Sociology), SOC 4353 (Sociology of Medicine), ANT 1305 (Introduction to Anthropology), and PHI/MH 1307 (Critical Thinking)**

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