## CU's Pre-Medical Emphasis

Students preparing for medical school (or another medically related field) may choose to pursue an emphasis in premedical studies. The *Pre-Medical Emphasis* is designed to include the courses required for admission into medical school, along with courses that will be helpful once students are admitted. If completed, it will be listed on your transcript as a "Specialization," along with your Major and any Minor(s) as shown below. (Note that specializations are NOT printed on the diploma.)

k	Bachelor Of Science,	Awarded on 05/2012	*
<	Major:	<b>BS-Biology</b>	*
<	Specialization:	Premedical	*
:	Minors:	Bible	*
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Students from any major may choose to earn a *Pre-Medical Emphasis* by completing each of the 15 courses (61 credits) listed below. However, these most naturally overlap with the course requirements of the Biology (BS) or Molecular and Cellular Biology (BS) major.

BIO-XXXX Grad School App Process	(0)		
BIO-1110 Introduction to Biology	(4)		
BIO-2010 Microbiology	(4)		
BIO-2250 Cell Biology	(4)		
BIO-3450 Structure & Function I	(4)		
BIO-3460 Structure & Function II	(4)		
BIO-3710 Biochemistry	(4)	or	CHEM-3710 Biochemistry (4)
CHEM-1110 General Chemistry I	(4)		
CHEM-1120 General Chemistry II	(4)		
CHEM-3510 Organic Chemistry I	(5)		
CHEM-3520 Organic Chemistry II	(4)		
PHYS-1010 College Physics I	(5)	or	PHYS-2110 Gen Physics I (5)
PHYS-1020 College Physics II	(5)	or	PHYS-2120 Gen Physics II (5)
MATH-1710 Calculus I*	(5)	or	GMTH-2110 Intro to Biostatistics (3)
One (1) of the following:			
BIO-3300 Genetics	(4)		
BIO-4350 Immunology	(3)		
BIO-4410 Developmental Biology	(4)		
BIO-4770 Pathophysiology	(3)		
EMT-Basic (transfer credit)	(3)		
Other helpful courses (not required):			
ALHL-2000 Medical Terminologies	(0)		
BIO-1120 General Zoology	(4)		
BIO-3800 Biological Research	(2)		
BIO-4880 Topics in Biology (Dissection)	(1-2)		
GMTH-2110 Introduction to Biostatics	(3)		
<b>BIO-4710</b> Principles of Bioethics	(3)	or	GBIO-2720 Bioethics & the Human Exp.
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## Which Courses Would Satisfy the Minimal Requirements for Medical School Admissions?

Some students, especially non-science majors, may not have room in their schedules to complete all of the courses for the *Pre-Medical Emphasis*. Below are listed what we believe are the essential courses to obtain a minimal (but adequate) preparation for admission into medical school. These include the requirements for Medical School Admission (1 year college equivalent of the following: Biology, General Chemistry, Organic Chemistry, and Physics; and for some schools Calculus I), along with a 2000-level Anatomy and Physiology course, and a 0-credit course to help in the Medical School Application Process. (11 courses, 44 credits)

BIO-XXXX Grad School App Process	(0)			
BIO-1110 Introduction to Biology				
GBIO-2010 Human Anatomy & Physiology I				
or BIO-3450 Structure & Function I (4)				
GBIO-2015 Human Anatomy & Physiology II				
or GBIO-2020 Human A&P II w/ Pathology (4)				
or BIO-3460 Structure & Function II (4)				
CHEM-1110 General Chemistry I	(4)			
CHEM-1120 General Chemistry II	(4)			
CHEM-3510 Organic Chemistry I	(5)			
CHEM-3520 Organic Chemistry II	(4)			
PHYS-1010 College Physics I	(5)			
PHYS-1020 College Physics II	(5)			
MATH-1710 Calculus I	(5)			

significantly helps with the application process

prerequisite: BIO-2250 Cell Biology (4)

may disregard if no math/Calc is required for the med schools to which you apply

Once the "essential" courses listed above are completed, students may want to take additional classes to provide a stronger science foundation. In such as case, these would be our recommended courses (in order of priority):

BIO-2010 Microbiology (Fa/Sp)	(4)	
BIO-3710 Biochemistry (Sp)		
or BIO-3300 Genetics (Fa)	(4)	prerequisite: BIO-2250 Cell Biology (4)
or BIO-4410 Developmental Biology (Fa)	(4)	prerequisite: BIO-3450 Structure & Function I (4)
BIO-4880 Topics in Biology (Dissection) (Fa/Sp)	(1-2)	
GBIO-2720 Bioethics & the Human Exp.	(3)	