

B.S. in Biology: Pre-Med - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4	GES160 Inquiry Seminar	3	BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4
CHE113/CHE113D General Chemistry I/Lab or CHE208/CHE208D Accelerated General Chemistry/Lab	4			CHE214/CHE215 General Chemistry II/Lab	4
PSY230M Intro to Statistical Methods & Experimental Design	4			GES130 Christianity & Western Culture	4
GES140 Introduction to Wellbeing	3			PSY100 Introduction to Psychology	3
	15		3		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO218 Biology in a Changing World	3	Contemporary Western Life and Thought (L) course	3	CHE226/CHE227 Organic Chemistry II/Lab	4
CHE224/CHE225 Organic Chemistry I/Lab	4			THE201 Christian Theology	3
BIB101 Introduction to the Bible	3			GES125 Introduction to the Creative Arts	4
Leisure and Lifetime Sports (Q) course	1			Biology environmental area choice	4
Artistic Experience (A) course	0-3				
	11-14		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO399 Introduction to Research	1	World Cultures (U) course	3	BIO216/BIO217 Human Physiology/Lab	4
BIO214/BIO215 Human Anatomy/Lab	4			Physics II elective	4
Physics I elective	4			Comparative Systems (G) course	3
Science, Technology and Society (K) course	3			Interpreting Biblical Themes (J) course	3
Second Language (S) course ¹	4				
	16		3		14
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO481 or BIO496 Internship in Biology or Biology Research	1-3	Interim Off or BIO409 Advanced Human Gross Anatomy	0-4	BIO499 Biology Symposium	0
BIO495 Biology Seminar	2			BIO481 or BIO497 Internship in Biology or Advanced Biology Research	1-3
CHE304/CHE305 Essentials of Biochemistry/Lab	4			BIO244/BIO245 Pathophysiology and Pharmacology/Lab or BIO354/BIO355 Cell Biology/Lab	4
BIO332/BIO333 Genetics/Lab	4			or BIO362/BIO363 Developmental Biology/Lab	
Cross-Cultural Experience (Z) course	0-3			BIO234/BIO235 Microbiology/Lab	4
Elective (HAS375 Biomech.; HAS379 Int. Hum. Phys; BIO384/BIO387)	3-4			GES420P Bioethics	3
	14-20		0-4		12-14
Total Credits 121-136					

1. Students must complete through the second semester of a first-year language course or equivalent.

This program assumes the student will use BIO124/BIO124D to meet the general Laboratory Science requirement.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall & spring for the state grant purposes only.)

Pre-requisite courses for most medical school programs

Recommended courses for most medical school programs

B.S. in Biology: Pre-Med - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4	GES147 Humanities II: Renaissance and Reformation	4	BIO124/BIO124D Integrative Biology: Cells, Genes, Change/Lab or BIO128/BIO128D Integrative Biology: Metabolism, Energy, Biodiversity/Lab	4
CHE113/CHE113D General Chemistry I/Lab or CHE208/CHE208D Accelerated General Chemistry I/Lab	4			CHE214/CHE215 General Chemistry II/Lab	4
GES145 Humanities I: Greco-Roman through Middle Ages	4			GES244 Humanities III: European Enlightenment and American Culture to 1877	4
GES140 Introduction to Wellbeing	3			BIB101 Introduction to the Bible	3
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO218 Biology in a Changing World	3	Elective		CHE226/CHE227 Organic Chemistry II/Lab	4
CHE224/CHE225 Organic Chemistry I/Lab	4			Biology environmental area choice	4
GES246 Humanities IV: Modern and Contemporary Western Culture	4			Mathematics area choice	3
Leisure and Lifetime Sports (Q) course	1			Second Language (S) course ¹	4
Artistic Experience (A) course	0-3				
	12-15		3		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO399 Introduction to Research	1	Comparative Systems (G) course	3	Cross-Cultural Experience (Z) course	0-3
BIO214/BIO215 Human Anatomy/Lab	4			Physics II elective	4
Physics I elective	4			Interpreting Biblical Themes (J) course	3
World Cultures (U) course	3			BIO216/BIO217 Human Physiology/Lab	4
	12		3		11-14
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
BIO481 or BIO496 Internship in Biology or Biology Research	1-3	BIO409 Advanced Gross Human Anatomy	4	BIO499 Biology Symposium	0
BIO495 Biology Seminar	2			BIO481 or BIO497 Internship in Biology or Advanced Biology Research	1-3
Science, Technology and Society (K) course	3			BIO244/BIO245 Pathophysiology and Pharmacology/Lab	4
CHE304/CHE305 Essentials of Biochemistry/Lab	4			or BIO354/BIO355 Cell Biology/Lab	4
BIO332/BIO333 Genetics/Lab	4			or BIO362/BIO363 Developmental Biology/Lab	4
Elective (HAS375 Biomech.; HAS379 Int. Hum. Phys; BIO384/387 Immunology/Lab)	3-4			BIO234/BIO235 Microbiology/Lab	4
				GES420P Bioethics	3
				Elective	3
	17-20		4		15-17
Total Credits 126-137					

1. Students must complete through the second semester of a first-year language course or equivalent.

This program assumes the student will use BIO124/BIO124D to meet the general Laboratory Science requirement.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit falls below 15 credits/semester. (Interim may be split between fall & spring for the state grant purposes only.)

Pre-requisite courses for most medical school programs

Recommended courses for most medical school programs