

**Biomedical Sciences Major  
Honors (Track 1)  
Semester by Semester Guideline**

	Credits		Credits
<b>Fall Semester, Freshman Year</b>		<b>Spring Semester, Freshman Year</b>	
HONR 192 Honors First Year Seminar	4	CHEM 113, 114 General Chemistry II and Lab	3, 1
LIFE 102 Attributes of Living Systems	4	BMS 260 Introduction to Biomedical Sciences (S) ( <i>BMS Directed Elective; required for freshman</i> )	3
CHEM 111, 112 General Chemistry I and Lab	4, 1	HONR 193 Honors Seminar	3
Arts/Humanities (AUCC, 3B)	3	LIFE 201B Introductory Genetics (S)	3
		MATH 155 (or 160) Calculus for Biological Sciences	4
<b>Total</b>	16		17
<b>Fall Semester, Sophomore Year</b>		<b>Spring Semester, Sophomore Year</b>	
CHEM 341 Modern Organic Chemistry I	3	CHEM 343 Modern Organic Chemistry II	3
LIFE 210 Introductory Eukaryotic Cell Biology (F)	3	CHEM 344 Modern Organic Chemistry Laboratory	2
LIFE 212 Introductory Cell Biology Lab (F)	2	BMS 360* Fundamentals of Physiology (S)	4
STAT 301 (or STAT 307) Statistical Methods	3	BMS 302** Laboratory in Principles of Physiology	2
Elective	3	Elective	3
<b>Total</b>	14		14
<b>Fall Semester, Junior Year</b>		<b>Spring Semester, Junior Year</b>	
BMS 301* Human Gross Anatomy (F, SS) {OR BMS 330 Microscopic Anatomy [4] OR BMS 305* Domestic Animal Gross Anatomy[4], both offered in Spring}	5	MIP 300, 302 General Microbiology and Laboratory	3, 2
PH 121 General Physics I	5	PH 122 General Physics II	5
BC 351 Principles of Biochemistry	4	BMS Directed** and/or Free Electives	3
HONR 392 Honors Seminar	3	HONR 399 Honors Pre-Thesis	1
		Advanced Writing (AUCC, 2)	3
<b>Total</b>	17		17
<b>Fall Semester, Senior Year</b>		<b>Spring Semester, Senior Year</b>	
BMS 460 Essentials of Pathophysiology (F)	4	HONR 492 Honors Seminar	3
BMS 492 Seminar – Pathophysiology (F)	1	BMS Directed ** and/or Free Electives	12
HONR 499 Honors Thesis	3		
BMS Directed Electives**	6		
<b>Total</b>	14		15

\*1<sup>st</sup> course options (choose one): BMS 301, BMS 305, BMS 360

\*\*2<sup>nd</sup> course options (choose one): BMS 302H, BMS 325, BMS 405, BMS 420, BMS 430, BMS 450

**Note:** Need 15 credits in BMS Directed Electives