

Curriculum Map – Biology/Premedicine

Map is based on 2011-12 MSU catalog of when/term courses are usually scheduled. This is not the only possible path, but any path must provide preparation for medical school & relate to when the student plans to take the MCAT. Honors Program students should consult with Honors Program Director for Honors Program requirements.

FIRST YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	FYS 101-First Year Seminar	G	3			CHEM 111/111L – Principles of Chemistry I (NSC2 exchange)	G,R	4
	ENG 100-Writing I	G	3			ENG 200 –Writing II (**HON 200)	G	3
	COMS 108 – Fundamentals of Speech Comm.	G	3			SBS I (e.g. SOC 203 – American Social Problems)	G	3
	BIOL 171 – Principles of Biology (NSC1 exchange)	G,R	4			BIOL 210/210L - Zoology	R	4
	MATH 174*	G,R	3					
Total Credit Hours			16		Total Credit Hours			14

SECOND YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	BIOL 215/215L – Botany	R	4			BIOL 301/301L–Fund. of Biochemistry	R,U	4
	CHEM 112/112L – Principles of Chemistry II with lab	S,R	4			BIOL 304/304L -Genetics	R,U	3
	Suggested General Elective BIOL 244/244A Human Anatomy & Physiology I with lab	E	4			Suggested General Elective BIOL 245/245A Human Anatomy & Physiology II with lab	E	4
	HUM I (e.g. PHIL 100 or 103) (**HON 205)	G	3			SBS II (e.g. PSY 154) (**HON 210)	G	3
						Gen Elective (e.g.PSY 156 - Life Span Developmental Psychology)	E	3
Total Credit Hours			15		Total Credit Hours			17

THIRD YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	CHEM 326/326L – Organic Chemistry I	S,R,U	4			Advanced Biology Elective (e.g. BIOL 336)	E,U	4
	BIO 317/317L - Microbiology	R,U	4			BIOL 380/380L –Cell Biology	R,U	3
	PHYS 201/201A – Elementary Physics I with laboratory	S,R	4			PHYS 202/202A – Elementary Physics II with laboratory	G	4
	MATH 353 - Statistics	S,R,U	3			CHEM 327/327L Organic Chemistry Required for many medical schools	E	4
Total Credit Hours			15		Total Credit Hours			15

FOURTH YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	Advanced Biology Elective (e.g. BIOL 429)	E,U	3			Advanced Biology Elective (e.g. BIOL 337, BIOL 424, BIOL 490)	E,U	3-4
	BIOL 425/425L–Animal Physiol	R,U	3			BIOL 499D–Capstone: Prin. Evolution	G,U	3
	General Electives	E	3			BIOL 461/461L - Ecology	R,U	3
	HUM II (e.g. ENG 205/Lang, culture & mind) or SPA 101	G	3			General Electives	E	3-4
	Suggested General Elective- BIOL338, BIOL 427, BIOL 428		3					
Total Credit Hours			15		Total Credit Hours			13

(P) Pre-Requisite Course(s) must be successfully passed to be eligible to enroll in this course.

(U) Upper Division Course 300-400 level (you must have 42 hours)

(R) Required Course

(E) Elective, (S) Supplemental, or (P) Pre-requisite

(G) General Education Course

***MATH 175 may substitute for MATH 174
MATH 152 + MATH 141 substitute for MATH 174**

****Honors Program students only**