

Curriculum Map – Biomedical Sciences/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-CORE-Writing I	G	3			ENG 200 –Writing II (** HON 200)	G	3
	COMS 108 – Core – Fund. Speech Communication	G	3			SBS I (e.g. SOC 203 – American Social Problems)	G	3
	BIOL 171 – Principles of Biology (NSC1 exchange)	G,R	4			BIOL 244/244A Human Anatomy & Physiology I with lab	E	4
	MATH 174*	G,R	3					3
Total Credit Hours			16		Total Credit Hours			14

SECOND YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	BIOL 304 – Genetics	R,U	3			BIOL 301/301L – Fundamentals of Biochemistry	R,U	4
	CHEM 112/112L – Principles of Chemistry II with lab	S,R	4			BIOL 317/317L – Principles of Microbiology	R,U	4
	BIOL 245/245A Human Anatomy & Physiology II with lab	E,U	4			PHYS 201/201A – Elementary Physics I with laboratory	S,R	4
	SBS Elective II (e.g. PSY 154 – Intro Psy) (**HON 205)	G	3			HUM I (e.g. PHIL 100 or 103) (**HON 210)	G	3
Total Credit Hours			14		Total Credit Hours			15

THIRD YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	CHEM 326/326L – Organic Chemistry I	S,R,U	4			Biomedical Science Elective (e.g. BIOL 336)	E,U	4
	BIOL 380/380L – Cell Biology	R,U	3			Gen Elective (e.g. SOC 101- Gen Soc)	E	3
	PHYS 202/202A – Elementary Physics II with laboratory	S,R	4			HUM II (e.g. ENG 205/Lang, culture & mind or SPA 101)	G	3
	MATH 353 - Statistics	S,R,U	3			CHEM 327/327L Organic Chemistry Required for many medical schools	E	4
						Gen Elective (e.g. PSY 156 - Life Span Developmental Psychology)	E	3
Total Credit Hours			14		Total Credit Hours			17

FOURTH YEAR COURSE SCHEDULE								
✓	Fall Semester	Code	Credits		✓	Spring Semester	Code	Credits
	Biomedical Science Elective (e.g. BIOL 429)	E,U	3			Biomedical Sciences Elective (e.g. BIOL 337/Comp. Anat. or BIOL 424/Immunology)	E,U	3
	Biomedical Science Elective (e.g. BIOL 425/425L)	E,U	3			Biomedical Science Elective (e.g. BIOL 490/Advanced Biochemistry)	E,U	3-4
	General Electives	E	6			BIOL 499E – Capstone: Advances in Biomedical Science	G,U	3
	Biomedical Science Elective (e.g. BIOL 338/Develop. Biology or BIOL 427/Patho. Microbiology or BIOL 428/Virology).	E,U	3			***General Electives	E	5-6
Total Credit Hours			15		Total Credit Hours			15

(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**