

Biology Pre-Laboratory Science Major Cytotechnology emphasis

(For entering students who are Calculus ready)
(55 credits)

First-Year Fall		First-Year Spring	
B21X / B22X* Gen Bio / Biology Experience	4	B21X / B22X* Gen Bio / Biology Experience	4
C131/133 General Chemistry I with Lab	4	B21X* Gen Bio	3
		C142/144 General Chemistry II / Lab	4
Total Major Credits	8 cr.	Total Major Credits	11 cr.
Total Semester Credits Recommended	15-18 cr.	Total Semester Credits Recommended	15-18 cr.
Sophomore Year Fall		Sophomore Year Spring	
B305 Human Anatomy with Lab	4	B313 Physiology with Lab	4
C321/C323 Organic Chemistry I / Lab	4	B392 Biostatistics	3
M151 Calculus I	4	C325 / 326 Organic Chemistry II with Lab	4
Total Major Credits	12 cr.	Total Major Credits	11 cr.
Total Semester Credits Recommended	15 -18 cr.	Total Semester Credits Recommended	15-18 cr.
Junior Year Fall		Junior Year Spring	
B311 Cell Biology with Lab	3	B435 Immunology with Lab	3
B434 Microbiology with Lab	3		
P201/202 or P180/P181 Introductory Physics I / Lab	4		
Total Major Credits	10 cr.	Total Major Credits	3 cr.
Total Semester Credits Recommended	15 -18 cr.	Total Semester Credits Recommended	15- 18 cr.

Other recommended electives: B306 Medical Terminology, B409 Biochemistry with Lab, and B412 Molecular Biology with Lab.

The program above is designed for students who desire to enter a clinical school in Medical Laboratory Science, after three years at Saint Mary's University. Students who are planning a three-year sequence plus one at a clinical school must plan carefully to ensure completion of the general education area requirements as well as 30 upper division credits by the end of their junior year. Students interested in this area can also major in Biology Pre-Laboratory Science and apply to clinical schools after four years at Saint Mary's University. Modifications of the core to suit the particular demands of the clinical school of your choice can be made with the approval of your advisor and upon consultation with the Director of Allied Health.

Students who intend to major in Biology Pre-Laboratory Science and acquire a Bachelor's Degree from Saint Mary's University prior to entering a clinical school must complete the following sequence of courses in their junior and senior years: B310 Genetics with Lab, B492 Experimental Planning, B476 Research I, and B477 / 478 Research II.

A student graduating from Saint Mary's University prior to completing the medical laboratory science training program

will receive a bachelor of arts degree with a major in Biology Pre-Laboratory Science.

A student graduating from Saint Mary's University after successfully completing the medical laboratory science training program will receive a bachelor of arts degree with a major in Biology Pre-Laboratory Science with emphasis in Medical Laboratory Science.

*Gen Bio I (B212), Gen Bio II (B214), Gen Bio III (B216), Field Experience (B221), and Lab Experience (B223) should be taken during the first year.

The template offered above is an optimal pathway to completion of the major. However, several factors affect a student's ability to follow this specific pathway, including timing of a student's decision to major, course availability, course demand, course scheduling conflicts, and faculty availability. Therefore, a student may not follow this specific pathway to completion of the major. A student may use the pathway as a resource and preparation guide, but a student's academic adviser is the best resource for planning course schedules.