

Bachelor of Science in Clinical Laboratory Science – Years 1 & 2

Students following the suggested course sequence will satisfy all necessary pre-requisites for the Clinical Laboratory Science Program.

	Course Number	Course Title	Credits	Prerequisites	Offered
Fall Year 1	ENC 1101	Composition I	3		F, Sp, Su
	BSC 1010C	General Biology I w/ Lab	4		F, Sp, Su
	MAC 1105	College Algebra	3	MAT 1033 or see catalog	F, Sp, Su
	XXX XXXX	State Core Humanities	3		F, Sp, Su
		Total Credits for Semester:	13	Academic Milestone Min GPA – 2.0	
Spring Year 1	ENC 1102	Composition II	3	ENC 1101	F, Sp, Su
	CHM 1045/L	General Chemistry I and Lab	4	MAC 1105	F, Sp, Su
	STA 2023	Statistical Methods	3	MAT 1033 or MAC 1105	F, Sp, Su
	BSC 1085C	Human Anatomy & Physiology I w/Lab	4		F, Sp, Su
		Total Credits for Semester:	14	Academic Milestone Min GPA – 2.0	
Su Year 1	CHM 1046/L	General Chemistry II and Lab	4	CHM 1045/L	F, Sp, Su
		Total Credits for Semester:	4		
Fall Year 2	CHM 2210/L	Organic Chemistry I and Lab	4	CHM 1046/L	F, Sp, Su
	BSC 1086C	Human Anatomy & Physiology II w/Lab	4	BSC 1085C	F, Sp, Su
	XXX XXXX	Gen Ed Social Science (INKN)	3		F, Sp, Su
	XXX XXXX	Gen Ed Humanities	3		F, Sp, Su
		Total Credits for Semester:	14	Academic Milestone Min GPA – 2.25	
Spring Year 2	CHM 2211/L	Organic Chemistry II and Lab	4	CHM 2210/L	F, Sp, Su
	MCB 3020C	General Microbiology w/ Lab *	4	BSC 1010C & CHM 2210/L	F, Sp, Su
	XXX XXXX	Gen Ed Humanities (CLWS/INKN)	3		F, Sp, Su
	XXX XXXX	State Core Social Science	3		F, Sp, Su
	XXX XXXX	Free Elective Course of Choice	1		F, Sp, Su
		Total Credits for Semester:	15	Academic Milestone Min GPA – 2.5	

Common Prerequisites / Academic Milestones – Students are allowed no more than TWO consecutive milestone non-compliance issues

General Education Courses

Free Elective Courses

- *Students may also take MCB 2010C to satisfy this requirement
- S/U grades will be accepted for milestone and prerequisite courses, but may make a student less competitive for limited access admissions (including grad school)
- Students must complete Civic Literacy requirement. See catalog for details: <https://www2.fgcu.edu/Catalog/civilliteracy.asp>
- Students must apply for admission to the BS in Clinical Laboratory Science program prior to entering the major. Progression into Year 4 and acceptance into the senior clinical year is limited access and based on a **minimum prerequisite GPA of 3.0.**
- General Education courses in social sciences or humanities must satisfy FGCU's writing and INKN requirement in the CLS major course progression. These courses are marked with a (CLWS, INKN) in the General Education Requirements section of the FGCU Academic Catalog or General Education checklist.
- Advanced tracking: It is recommended that students complete College Algebra (MAC 1105) or higher level math before Fall Year 1 in order to start Chemistry courses.
- **All courses in the CLS major must be completed with a grade of C or better (a grade of C- or less is not acceptable).** Milestone progression GPA requires an overall FGCU Institution GPA of 2.0 or greater each term. See MCHHS Lower Division Student Guidebook for more information.

Bachelor of Science in Clinical Laboratory Science – Years 3 & 4

	Course Number	Course Title	Credits	Prerequisites	Offered
Fall Year 3	BCH 3023C	Biochemistry	3	CHM 2211/L	F, Sp, Su
	PCB 4233C	Immunology	3	BSC 1010C & CHM 2211/L	F, Sp
	HSC 3161	Genetics for Health Sciences *	3	BSC 1010C	F, Sp
	IHS 4504	Research Methods	3		F, Sp, Su
		Total Credits for Semester:	12		
Spring Year 3	MLS 4550	Immunoematology and Transfusion	3	HSC 3161 & PCB 4233C	Sp
	MLS 4308	Hematology/Hemostasis	3	BSC 1010C	Sp
	MLS 4404	Diagnostic Microbiology	3	MCB 3020C	Sp
	MLS 4627	Clinical Biochemistry	3	BCH 3023C	Sp
		Total Credits for Semester:	12		
Su Year 3	IDS 3920	University Colloquium	3		F, Sp, Su
	MLS 3038	Essentials of Lab Science	3		Su
	MLS 3220	Biological Fluids	2	BSC 1010C & CHM 1046/L	Su
	MLS 4462	Virology, Mycology, Parasitology	3	MCB 3020C	Su
		Total Credits for Semester:	11		
Fall Year 4	MLS 4505	Clinical Immunology	2	BSC 1010C	F
	MLS 4191	Molecular Diagnostics	3	HSC 3161	F
	MLS 4821C	Microbiology Practicum	3	MLS 4404	F
	MLS 4822C	Hematology/Hemostasis Practicum	3	MLS 4308	F
	MLS 4820C	Clinical Biochemistry Practicum	3	MLS 4627	F
		Total Credits for Semester:	14		
Spring Year 4	MLS 4823C	Immunoematology Practicum	3		Sp
	MLS 4826C	Clinical Immunology Practicum	2		Sp
	IHS 3101	Shaping Healthcare	3		F, Sp, Su
	IHS 3203	Mgmt. & Leadership in Healthcare	3		F, Sp, Su
	IHS 4938	Senior Seminar	3	IHS 4504	F, Sp, Su
		Total Credits for Semester:	14		

Required in the Major

University Requirement

Following this plan will result in completing 123 hours in the program; All students must earn a minimum of 3.0 overall GPA in the upper level Clinical Laboratory Science courses.

Additional Information:

- * Acceptable substitutes to HSC 3161: PCB 2336 or PCB 3063C.
- Students must satisfy college-level skills, civic literacy, service learning and foreign language requirements in order to graduate.
- The information provided in this document is subject to change. Please check our website for the most up-to-date information.