



BACHELOR OF SCIENCE IN BIOCHEMISTRY

	Course	Course Description	Credits	Prerequisites	Offered
Fall - Year 1	CHM 1045/L	General Chemistry I/lab	4	MAC 1105, 1147, 2311, 2157, or ACU5 with minimum score of 066	Fa, Sp, Su
	BSC 1010C	General Biology I	4		Fa, Sp, Su
	MAC 2311	Calculus I	4	MAC 1147 or MAC 2157 or ACU5 min. score of 087	Fa, Sp, Su
	ENC 1101	Composition 1	3	A01 min. score of 17 or S01 min. score of 440 or ACU 1 min. score of 083 or ERT 1 min. score of 103	Fa, Sp, Su
	Total Credits for Semester:			15	

	Course	Course Description	Credits	Prerequisites	Offered
Spring - Year 1	CHM 1046/L	General Chemistry II/lab	4	CHM 1045/L	Fa, Sp, Su
	BSC 1011/L	General Biology II	4		Fa, Sp, Su
	MAC 2312	Calculus II	4	MAC 2311	Fa, Sp, Su
	ENC 1102	Composition 2	3	ENC 1101	Fa, Sp, Su
	ARH 2000 or HUM X020 or LIT 2000 or MUL 2010 or PHI 1010 or THE 2000	State Core Gen Ed Requirement in Humanities	3		Fa, Sp, Su
	Total Credits for Semester:			18	

	Course	Course Description	Credits	Prerequisites	Offered
Fall - Year 2	CHM2210/L	Organic Chem I/Lab	4	CHM 1046/L	Fa, Sp, Su
	CHM 3120C	Analytical Chemistry	4	CHM 1046/L	Fa, Sp
	STA 2023	Statistical Methods	3	MAT 1033 or MAC 1105 or MAC 1147 or MAC 2233 or MGF 1107 or MGF 1106 or S02 min. score of 550 or A02 min. score of 24 or ACU4 min. score of 090 or ERT4 min. score of 123	Fa, Sp, Su
	AMH 2020 or ANT 2000 or ECO 2013 or POS 2041 or PSY 2012 or SYG 2000	State Core Gen Ed Requirement in Social Sciences	3		Fa, Sp, Su
	XXX XXXX	General Education Course in Humanities**	3		Fa, Sp
	Total Credits for Semester:			17	

	Course	Course Description	Credits	Prerequisites	Offered
Spring - Year 2	CHM 2211/L	Organic Chem w/Lab II	4	CHM 2210/L or CHM 2210C	Fa, Sp, Su
	PHY 2048C or PHY 2053C	General Physics w/Lab I or College Physics	4	MAC 2311 or MAC 1147	Fa, Sp, Su
	XXX XXXX	General Education Course in Social Sciences**	3		Fa, Sp, Su
	XXX XXXX	General Education Course in Humanities**	3		Fa, Sp, Su
	Total Credits for Semester:			14	

NOTES:

- * Assumes student arrives ready for Calculus I (MAC 2311) and Statistical Methods (STA 2023)
Students must complete 6 hours of Intercultural Knowledge coursework (INKN) from within the Social Sciences, Humanities or Natural Sciences.
- ** Additionally to Composition I & II students will complete a additional 6 hours of College Level Writing Skills (CLWS) from within the Social Sciences or Humanities categories, or Colloquium with a "C" or higher.
For additional information, see: <https://www.fgcu.edu/cas/departments/cphy/biochembs/index.aspx>



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Fall - Year 3	Course	Course Description	Credits	Prerequisites	Offered
	BCH 4033C	Advanced Biochemistry I	4	CHM 2211/L	Fa
	CHM 3400/L	Principles of Phys. Chem.	4	CHM 2211/L, CHM 3120/L or CHM 3120C, MAC 2311, PHY 2049C or PHY 2054C	Fa
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
	PHY 2049 or PHY 2054C	General Physics w/Lab II or College Physics II	4	PHY 2048C and MAC 2312 (Gen Phy only)	Fa, Sp
	Total Credits for Semester:		15		

Spring - Year 3	Course	Course Description	Credits	Prerequisites	Offered
	BCH 4034C	Advanced Biochemistry II	4	BCH 4033C	Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
Total Credits for Semester:		13			

Fall - Year 4	Course	Course Description	Credits	Prerequisites	Offered
	CHM 3610/L	Inorganic Chemistry/L	4	CHM 1046/L	Fa
	CHM 4932	Chemistry Senior Seminar	3	CHM 2211/L/C and CHM 3120/L/C	Fa
	IDS 3920	University Colloquium	3	Meets Communication Skills requirement	Fa, Sp, Su
	XXX XXXX	Free General Elective	2		Fa, Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
Total Credits for Semester:		15			

Spring - Year 4	Course	Course Description	Credits	Prerequisites	Offered
	CHM 4931	Senior Capstone in Chemistry	3	CHM 3005C and CHM 3120C and CHM 4139C and BCH 4034C	Sp
	CHM 4139C	Instrumental Analysis	4	CHM 2211/L and 3120C	Sp
	XXX 3XXX/4XXX	Upper Level Elective	3	see course description in catalog	Fa, Sp
	XXX 3XXX/4XXX	Upper Level Elective	2	see course description in catalog	Fa, Sp
Total Credits for Semester:		12			

Total Credits for Degree: 120

Course Type

General Education
Common Prerequisites
Strongly Recommended Gen Ed
Required in the Major
Critical Course for the Major
Milestones for the Major
Restricted Electives
University Requirement
General Electives

Note: FGCU requires that students who enter with fewer than 60 semester hours of credit must enroll in a minimum of 9 semester credit hours of coursework during one or more summer sessions prior to graduation. Therefore any of the courses listed in the fall and spring semesters above may be completed during a summer session. The total credits for the degree still add up to 120.

Summer	Course	Course Description	Credits	Prerequisites	Semester Offered
	XXX XXXX	Any Courses Listed Above	varies	varies	Summer
			≥ 9		