

Bachelor of Science Degree

analyzed to seek answers to questions in molecular, medical, and environmental biology. The requirements to complete the Concentration in Computational Biology include all of the requirements for the B.S. Biology major plus the following:

Students must complete the following courses in partial fulfillment of the Section D science electives requirement:

		Credits
CSC 117-8	Introduction to Programming I-II	3-3
CSC 242	Data Structures	4
MAT 261	Linear Algebra	4
MAT 352	Mathematical Modeling	3
BIO/CSC/MAT 361	Bioinformatics	4

**Animal-based course*

***Depending on content, a Selected Topics in Biology may count as a plant- or animal-based course*

^Plant-based course

Chemistry Major

In addition to the general education requirements (see pp. 119-120), the following courses are required:

A. Required courses in Freshman Studies (required for anyone admitted into the program with fewer than 24 credits):

		Credits
SCI 100	The Natural World: The Caribbean	3
SSC 100	An Introduction to the Social Sciences: A Caribbean Focus	3
FDS 100	Freshman Development Seminar	1

B. Required courses in Chemistry:

		Credits
CHE 151-152	General Chemistry I-II	5-5
CHE 251	Quantitative Analysis	4
CHE 252	Instrumental Analysis	4
CHE 253-254	Organic Chemistry I-II	5-5
CHE 341-342	Physical Chemistry I-II	4-4
CHE 397,398	Junior Science Seminar I, II	1/2,1/2
CHE 432	Inorganic Chemistry	4
CHE 497,498	Senior Science Seminar I, II	1,1
	Subtotal	43

C. Required courses in Mathematics:

		Credits
MAT 143-142*	Precalculus Algebra and Trigonometry	4-4
MAT 241-242*	Introduction to Calculus and Analytical Geometry I-II	4-4

Bachelor of Science Degree

MAT 341-342*	Intermediate Calculus I-II	3-3
	Subtotal	22

**A student may be exempted from MAT 143-142 by a qualifying examination.*

D. Required courses in Physics:		Credits
PHY 241-242	General Physics I-II	5-5
PHY 341	Modern Physics	3
PHY 351	Modern Physics Laboratory	1
	Subtotal	14

E. Science Electives: An additional 21 credits in science, mathematics, engineering, or computer science are required from the following:

- Any Biology course
- 300 or 400 level Chemistry courses
- 200, 300 or 400 level Mathematics courses
- Any Computer Science course except CSC 111
- Any 200 level engineering courses
- 300 level physics courses

F. The following courses are strongly recommended in partial fulfillment of the requirements in Section D:

		Credits
CHE 348	Biochemistry	5
CHE 465	Selected Topics in Chemistry	3
CHE 495	Directed Independent Research	1 to 4
BIO 245	Principles of Genetics	4
MAT 346	Differential Equations	3

G. Pre-medical students are advised to take:

		Credits
BIO 141-142	General Biology I-II	4-4
CHE 348	Biochemistry	5
BIO 245	Principles of Genetics	4

Computer Science Major

In addition to the general education requirements (see pp. 119-120), the following courses are required:

A. Required courses in Freshman Studies (required for anyone admitted into the program with fewer than 24 credits):

		Credits
SCI 100	The Natural World: The Caribbean	3
SSC 100	An Introduction to the Social Sciences: A Caribbean Focus	3
FDS 100	Freshman Development Seminar	1