Central Connecticut State University

1615 Stanley Street
New Britain, Connecticut 06053-4010

Address:

Name:

I.D.#

email

Effective Fall 2006

BS in Biochemistry

Departments of Biomolecular Sciences and Chemistry

General Education

Study Area I -*Arts and Humanities (9)*

	Literature	3
		3
		3

Study Area II - *Social Sciences (9)*

	HIST	3
		3
		3

Study Area III - *Behavioral Sciences (6)*

		3
		3

Study Area IV - *Natural Sciences(6-7)*

X	PHYS 121 [c]	4
X	PHYS 122	4

Skill Area I - *Communication Skills (6)*

	ENG 110 [a]	3
		3

Skill Area II - *Mathematical (6)*

X	MATH 119 [b, c]	4
X	MATH 152	4

Skill Area III - *Foreign Language*

	3 sequential years of one foreign language at the high school level
	passed the foreign language exam.
	completed 112 or 114 foreign language courses
	completed above 112 or 114 foreign language course
	demonstration of native proficiency in a language other than English

Skill Area IV - *Univ. Requirements (2-3)*

	PE 144 Fitness/ Wellness	2

Major Requirements (54-57 cr)

Core Requirements

	BMS 102 & 103	Intro to BMS w/Lab	4
	BMS 201	Principles of Cell & Mol Biol	4
	BMS 190 & 290	Intro to Research I & II	1
	BMS 390 or CHEM 238	Independent Research	1
	BMS 491 or CHEM 438	Advanced Ind Research	1
	CHEM 161/162	General Chemistry I	4
	CHEM 163/164	General Chemistry II	4
	CHEM 210/211	Organic Chemistry I	4
	CHEM 212/213	Organic Chemistry II	4
	CHEM 301	Analytical Chemistry	4
	CHEM 316	Spec. I.D.	3

Biomolecular Electives*

	BMS 306 or 311 or 316	4
	BMS Elective*	3 to 4
	BMS Elective*	3 to 4

* BMS 306, 311, 316, 415, 490, 495, 562, 570; or BIO 416, 449/450.

Chemistry Electives†

	CHEM	3 to 4

† CHEM 402, 456, 459, or 485.

Biochemistry Capstone

	BMS 496/497 or CHEM 454/455		4
	CHEM 458	Advanced Biochemistry	3

Portfolio Requirement

met: ☐ YES

Related Requirements

	MATH 119 [b, c]	Pre-Calc with Trig	4
	MATH 152	Calc I	4
	PHYS 121 [c]	General Physics I	4
	PHYS 122	General Physics II	4

Graduation Requirements

Six credit designated "international"

met: ☐ YES

First Year Experience requirement

met: ☐ YES

Electives (to complete the required 122)

Double-counting restriction: Of the courses taken in the major and minor/concentration, a total of two courses may be counted to fulfill the Study Areas portion of the general education program.

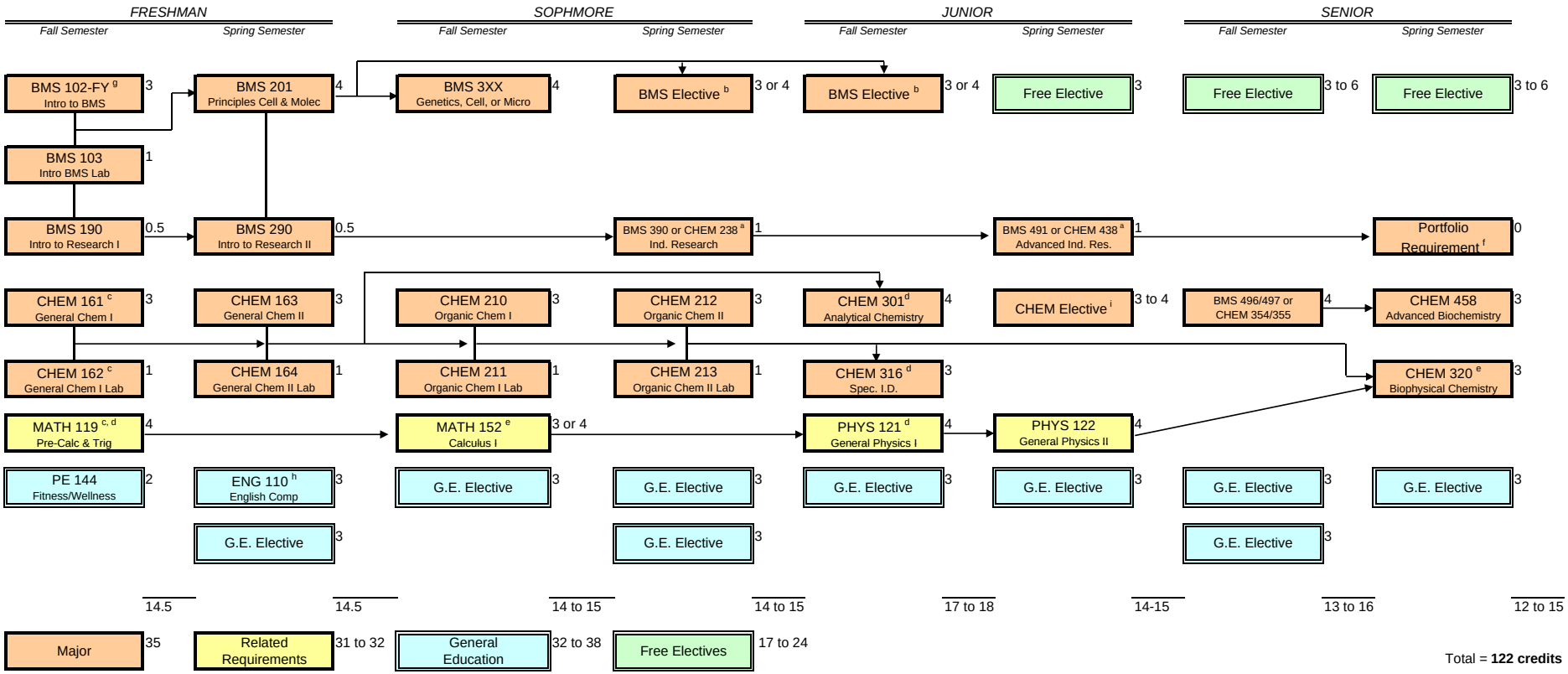
Residency requirements: A minimum of 45 cr. at CCSU with 15 cr. in the major and 9 cr. in the minor or concentration. Eligibility for high honors requires the student to earn 62 cr. in residence at CCSU.

[a] Students not completing ENG 110 prior to earning 61 cr. are required to take both ENG 110 and ENG 202.

[b] MATH 101 or the Mathematics Placement Exam is a prerequisite for CHEM 161/162, and for MATH 119.

[c] MATH 119 is a prerequisite for PHYS 121. Other appropriate courses may be substituted in Skill Area II if this requirement is already met.

Bachelor of Science in Biochemistry



[a] BMS 390, 491, CHEM 238, and 438 give each student the opportunity to work with an individual faculty member on a research project. Students are welcomed and encouraged to discuss research opportunities with any biochemistry faculty member as early as their first semester. While the required (2 cr.) project may be completed as late as the senior year, more in-depth research experiences may demand an earlier start.

[b] Biomolecular course electives : BMS 306, 311, 316, 415, 490, 495, 562, 570; BIO 416. (Pre-requisites may include 300-level BMS and/or CHEM courses.)

[c] MATH 101 or an appropriate score on the Mathematics Placement Exam is a prerequisite for CHEM 161/162 and for MATH 119.

[d] MATH 119, or an appropriate score on the Mathematics Placement Exam is a prerequisite for MATH 152, CHEM 301, CHEM 316, and PHYS 121. Other appropriate courses may be substituted in Skill Area II if this requirement is already met.

[e] MATH 152 is required for CHEM 320.

[f] The Portfolio Requirement is described in the Biomolecular Sciences section of the University Catalog.

[g] First-year students must take an FYE introductory course in the first semester.

[h] Students not completing ENG 110 prior to earning 61 cr. are required to take both ENG 110 and ENG 202.