

# Central Connecticut State University

1615 Stanley Street  
New Britain, Connecticut 06053-4010

Effective Fall 2013

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name: \_\_\_\_\_

I.D.# \_\_\_\_\_

email \_\_\_\_\_

# BS in Biomolecular Sciences

## Specialization: General Program

### General Education

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

<input type="checkbox"/>	Literature	3
<input type="checkbox"/>	_____	3
<input type="checkbox"/>	_____	3

#### Study Area II - Social Sciences (9)

<input type="checkbox"/>	HIST	3
<input type="checkbox"/>	_____	3
<input type="checkbox"/>	_____	3

#### Study Area III - Behavioral Sciences (6)

<input type="checkbox"/>	_____	3
<input type="checkbox"/>	_____	3

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

X	CHEM 161/162 <sup>b</sup>	4
X	CHEM 200/201	4

#### Skill Area I - Communication Skills (6)

<input type="checkbox"/>	ENG 110 <sup>a</sup>	3
<input type="checkbox"/>	_____	3

#### Skill Area II - Mathematical (6)

X	MATH 115 or 119 <sup>b, c</sup>	3 or 4
X	MATH 125 <sup>b</sup> or 152 <sup>c</sup>	3 or 4

#### Skill Area III - Foreign Language

<input type="checkbox"/>	3 sequential years of one foreign language at the high school level
<input type="checkbox"/>	passed the foreign language exam.
<input type="checkbox"/>	completed 112 or 114 foreign language courses
<input type="checkbox"/>	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)

<input type="checkbox"/>	PE 144 Fitness/Wellness	2
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### Major Requirements (35 cr)

#### Core Requirements

<input type="checkbox"/>	BMS 102 & 103	Intro to BMS w/Lab	4
<input type="checkbox"/>	BMS 201	Principles of Cell & Mol Biol	4
<input type="checkbox"/>	BMS 190 & 290	Intro to Research I & II	1
<input type="checkbox"/>	BMS 390	Independent Research in BMS	1
<input type="checkbox"/>	BMS 491	Advanced Ind Research	1
<input type="checkbox"/>	BMS 306 or 307	Genetics or Genomics	3 or 4
<input type="checkbox"/>	BMS 311	Cell Biology	4
<input type="checkbox"/>	BMS 316	Microbiology	4

#### Biomolecular Electives\*

<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____
<input type="checkbox"/>	_____	_____	_____

\* BMS 306, 307, 308, 318, 319, 320, 321, 322, 340, 380 (3 cr only), 391, 412/413, 414, 415, 416, 490, 491, 495, 496/497, 499, 516, 519, 562, 570; CHEM 320, 354/455, 456, 458; or BIO 449/450, 530.

#### Portfolio Requirement

met:  YES

### Related Requirements

<input type="checkbox"/>	CHEM 161/162 <sup>b</sup>	General Chem w/ Lab	4
<input type="checkbox"/>	CHEM 200/201	Fnd of Analytical Chem w/ Lab	4
<input type="checkbox"/>	CHEM 210/211	Fnd of Organic Chem w/ Lab	4
<input type="checkbox"/>	CHEM 212/213	Organic Synthesis w/ Lab	4
<input type="checkbox"/>	MATH 115/ 119 <sup>b, c</sup>	Trig or Pre-Calc with Trig	3 or 4
<input type="checkbox"/>	MATH 125 <sup>b</sup> or 152 <sup>c</sup>	Applied Calc or Calc I	4
<input type="checkbox"/>	PHYS 121 <sup>c</sup>	General Physics I	4
<input type="checkbox"/>	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)

<input type="checkbox"/>	_____	_____

#### Minor (not required)<sup>d</sup>

<input type="checkbox"/>	_____	_____

**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 30 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.

<sup>a</sup> Students not completing ENG 110 prior to earning 61 cr. are required to take both ENG 110 and ENG 202.

<sup>b</sup> MATH 101 or the Mathematics Placement Exam is a prerequisite for CHEM 161/162, and for MATH 115, 119 and 125.

<sup>c</sup> MATH 115 and 125 or MATH 119 is a prerequisite for PHYS 121. Other appropriate courses may be substituted in Skill Area II if this requirement is already met. MATH 152 is a requirement of the minor in Chemistry.

<sup>d</sup> A minor in Science, B.S., may be elected with a C- or better in related requirement courses CHEM 161/162, 200/201; and PHYS 121, 122.