| Ce | ntral Connecticut State Un | iversity | Address: | Address: | | | | |
|---|--|-----------|-------------------------------|--------------------------------|-------|---------------------------------------|----------------------------|------------|
| 1615 Stanley Street | | | 744000 | | Name: | | | |
| New | Britain, Connecticut 06053-4010 | | | | I.D.# | | | |
| | | | | | email | | | |
| Effec | ctive Spring 2016 | | | | | RS i | n Biochem | ietry |
| | 1. * | | | | | ו טם | II DIOCIICIII | iiou y |
| | | | | | Ame | erican Che | emical Society certif | ied track. |
| | | | Departr | nents of Chemistry | & Bio | chemistr | y and Biomolecular | Science |
| General Education | | | Major Requireme | Major Requirements (57 cr) | | Graduation Requirements | | |
| Study Area I -Arts and Humanities (9) | | | Core Requirements (38 cr) | | | Six credit designated "international" | | |
| | Literature | 3 | BMS 102 & 103 | Intro to BMS w/Lab | 4 | met: | | |
| | | 3 | BMS 201 | Principles of Cell & Mol Biol | 4 | First Year Ex | perience requirement | |
| | | 3 | BMS 190 & 290 | Intro to Research I & II | 1 | met: | | |
| Stud | y Area II - Social Sciences (9) | | CHEM 238 (or BMS | | 1 | | | |
| | | | 390) CHEM 438 (or BMS | Independent Research | | | | |
| | HIST | 3 | 491) | Advanced Ind Research | 1 | Clastinas (to | complete the required 122) | |
| | | 3 | CHEM 161/162 | General Chemistry | 4 | Declives (10 | complete the required 122) | |
| | | 3 | CHEM 200/201 | Foundations of Analytical Chem | 4 | | | |
| Stud | y Area III - Behavioral Sciences (6) | | CHEM 210/211 | Organic Chemistry I | 4 | | | |
| | | 3 | CHEM 212/213 | Organic Chemistry II | 4 | | | |
| | | 3 | CHEM 260 | Foundations of Inorganic Chem. | 3 | | | |
| Stud | y Area IV - Natural Sciences(6-7) | | CHEM 316 | Spec. I.D. | 3 | | | |
| х | PHYS 125 | 4 | CHEM 320 | Biophysical Chemistry | 3 | | | |
| X | PHYS 126 | 4 | CHEM 332 | Chemical Literature | 1 | | 1/ | |
| | Area I - Communication Skills (6) | | CHEM 432 | THE WARD DEED IN | | | | |
| | | | OHEM 432 | Chemistry Seminar | 1 | | | |
| | ENG 110 | 3 | Additional CHEM (8 cr | 1 | | | | |
| Skill Area II - Mathematical (6) | | 3 | | | 1.76 | | | |
| SKIII | Alea II - Mauremaucar (0) | | CHEM 322 | Quantum Chemistry | 3 | | | |
| Х | MATH 152 | 4 | CHEM 323 | Physical Chemistry Lab | 1 | | | |
| Х | MATH 221 | 4 | CHEM 402 | Instrumental Analysis | 4 | | | |
| Skill Area III - Foreign Language 3 sequential years of one foreign language at the school level | | ttha hiah | Directed Electives* (4 | | | | | |
| | | ture nign | BMS 306, 307, 311, or 316 | | | | | |
| | passed the foreign language exam. completed 112 or 114 foreign language courses | | Biochemistry Capstone (7 cr.) | | 3 | | | |
| | | | CHEM 354 | Biochemistry | 1 | | | |
| | | | | | | | | |
| | completed above 112 or 114 foreign language demonstration of native proficiency in a language | | CHEM 455 | Biochemistry Lab | 3 | | | |
| than English | | CHEM 458 | Advanced Biochemistry | | | | | |
| Skill Area IV - Univ. Requirements (2-3) | | | Portfolio Requirement | | | | | |
| | PE 144 Fitness/ Wellness | 2 | met: | | | | | |
| | | | Related Requirements | | | | | |
| | | | | | | | | |
| | | | MATH 152 | Calc I | 4 | | | |
| | | | MATH 221 | Calc II | 4 | | | |
| | | | PHYS 125 | University PHYS I | 4 | | | |
| | | | PHYS 126 | University PHYS II | 4 | | | |

BS in Biochemistry—Certified by the American Chemical Society.

| | Fall | | Spring | | |
|-------------------------|---------------------------------|------|-----------------------|------|--|
| Year One ^a | CHEM 161/ 162 | 4 | CHEM 200/ 201 | 4 | |
| | BMS 102/ 103 | 4 | BMS 201 | 4 | |
| | BMS 190 | 0.5 | BMS 290 | 0.5 | |
| | ENG 110 | 3 | MATH 152 | 4 | |
| | GEN ED or MATH 119 ^a | 3 | GEN ED | 3 | |
| | | | PE 144 | 2 | |
| | | 14.5 | | 17.5 | |
| Year Two | CHEM 210/ 211 | 4 | CHEM 212/ 213 | 4 | |
| | PHYS 125 | 4 | PHYS 126 | 4 | |
| | MATH 221 | 4 | BMS Elective | 4 | |
| | GEN ED | 3 | CHEM 260 | 3 | |
| | | 15 | | 15 | |
| Year Three ^b | CHEM 316 | 3 | CHEM 332 ^c | 1 | |
| | CHEM 354 | 3 | BMS 390 or CHEM 238 | 1 | |
| | CHEM 320 | 3 | CHEM 455 | 1 | |
| | GEN ED | 3 | CHEM 458 | 3 | |
| | GEN ED | 3 | GEN ED | 3 | |
| | | | GEN ED | 3 | |
| | | 15 | Electives | 3 | |
| | | | | 15 | |
| Year Four ^b | CHEM 322 ^b | 3 | CHEM 402 ^b | 4 | |
| | CHEM 323 ^b | 1 | CHEM 432 ^b | 3 | |
| | CHEM 438 | 1 | GEN ED | 1 | |
| | GEN ED | 3 | Electives | 6 | |
| | Electives | 8 | | | |
| | | | | 14 | |
| | | 16 | | | |

a Students who do not place into MATH 152 should take MATH 119 in the Fall of their first year in order to have the prerequisite for MATH 152 in the Spring, requiring an adjustment to the Gen. Ed. schedule.

b Class is cycled, meaning it is offered once every four semesters. Consult with your advisor to ensure you get classes in the proper cycle.

c Students must be enrolled in or have taken BMS390 or CHEM 238 by Spring of junior year in order to meet the pre/corequisite for CHEM 332.