

BERGEN COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
<i>Associate in Science Natural Sciences and Mathematics, Chemistry Option</i>		<i>Bachelor of Science in Chemistry</i>	
Course	Credit	Course	Credit
First Semester (17 credits)			
Humanities Elective	3	Equivalent Elective	3
CHM-140 General Chemistry I	3	CHEM 110 General Chemistry I	4
CHM-141 General Chemistry Laboratory I	1		
MAT-180 Precalculus: College Algebra and Trig	4	MATH 141 Precalculus	4
COM-100 Speech Comm <i>or</i> COM-102 Public Speak	3	FCSP 105 Foundations of Speech Comm	3
WRT-101 English Composition I	3	FCWR 101 Writing I	3
Second Semester (17 credits)			
Humanities Elective	3	Equivalent Elective	3
Free Elective	3	Equivalent Elective	3
CHM-240 General Chemistry II	3	CHEM 150 General Chemistry II	4
CHM-241 General Chemistry Laboratory II	1		
MAT-280 Calculus I	4	MATH 170 Calculus I	4
WRT-201 English Composition II	3	FCWR 151 Writing II	3
Third Semester (15 credits)			
Social Science Elective: Restricted to Psychology (PSY), Sociology (SOC), or Anthropology (ANT)	3	Behavioral Science Equivalent	3
CHM-260 Organic Chemistry I	4	CHEM 210 Organic Chemistry I	4
MAT-281 Calculus II	4	MATH 180 Calculus II	4
PHY-280 Physics I	4	PHYS 170 Physics I	4
Fourth Semester (17 credits)			
Humanities Elective	3	Equivalent Elective	3
Humanities Elective: Restricted to History (HIS) or Philosophy and Religion (PHR)	3	FCIQ 101 Foundations of Inquiry*	3
Social Science Elective: Restricted to Economics (ECO) or Political Science (POL)	3	Social Science Equivalent	3
CHM-262 Organic Chemistry II	4	CHEM 250 Organic Chemistry II	4
PHY-290 Physics	4	PHYS 180 Physics II	4
TOTAL	66	TOTAL	66

**Transfer substitution awarded on the basis of this agreement.
If course recommendations are not followed, transfer credit award may vary.*

PLAN OF STUDY

Approved by James Simon, Dean
College of Arts and Sciences, NYIT

- *Effective as of 2016*

Program of study at New York Institute of Technology:
Bachelor of Science in Chemistry

Courses to be completed at NYIT:

Courses required at NYIT may be adjusted based on classes completed at Bergen CC

Major Courses:		Credits
CHEM 310	Quantitative Analysis	4
CHEM 350	Instrumental Analysis	3
CHEM 395	Introduction to Research Design	3
CHEM 410	Physical Chemistry I	4
CHEM 450	Physical Chemistry II	4
CHEM 493	Independent Research III	4
CHEM 494	Independent Research IV	4
BIOL 110	General Biology I	4
BIOL 340	Biochemistry	4
MATH 235	Applied Statistics <i>or</i> MATH 310 Linear Algebra	3
SCI ELEC	Science Electives	9-12
Core and Additional Requirements:		
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Comm for Technical Professions	3
ICLT 3XX	Literature Seminar	3
ICPH 3XX	Philosophy Seminar	3
Total credits at New York Institute of Technology		<u>58-61</u>

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