GUTTMAN COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
Associate of Science – Science College Algebra & Trigonometry Exempt		***Bachelor of Science in Chemistry***	
Course	**Credit**	**Course**	**Credit**
Year 1 – Term 1			
AMST 103: Introduction to Social Justice	3	DATA 101: Making Sense Data-Orient Society^	3
ENGL 103: Composition I	3	FCWR 101: Writing I	3
CHEM 211: General Chemistry I	4	CHEM 110: General Chemistry I	4
MATH 201: Precalculus	3	MATH 141: Precalculus	4
ART 200: The Arts in New York City, *or* ART 120: Intro/ Perspectives in Photography, *or* COMM 102: Introduction to Media Studies, *or* ENGL 211: Cities in Film & Literature	3	General Elective, *or* ICLT 325 Cityscapes for ENGL 211	3
Year 1 – Term 2			
ENGL 203: Composition II	3	FCWR 151: Writing II	3
SOSC 111: Ethnographic Methods at Work	3	ICBS Behavioral Science Elective	3
BIOL 211: General Biology I	4	BIOL 150: General Biology II	4
CHEM 221: General Chemistry II	4	CHEM 150: General Chemistry II	4
XXXX xxx: Flexible Common Core	3	Equivalent Elective	3
Year 2 – Term 3			
BIOL 221: General Biology II	4	BIOL 110: General Biology I	4
CHEM 251: Organic Chemistry I	5	CHEM 210: Organic Chemistry I (4), and one credit used to balance MATH 141 (1)	4
AMST 203: Civic Engagement in Global Society *or* ECON 206: International Political Economy	3	ICSS Social Science Elective	3
XXXX xxx: Elective	3-4	Equivalent Elective	3
Year 2 – Term 4			
CHEM 252: Organic Chemistry II	5	CHEM 250 Organic Chemistry II, CHEM Elec 1	5
BIOL 231: Microbiology, *or* BIOL 260: Cell Biology, *or* CHEM 241: Analytical Chemistry	4	BIOL 235: Microbiology (4), *or* BIOL 432: Cell Biology (3) & BIOL Elec (1), *or* CHEM 310: Quantitative Analysis	4
XXXX xxx: Elective *Recommended:* MATH 210 Calculus	4	MATH 170 Calculus I for MATH 210	4
TOTAL	**61-62**	**TOTAL**	**61**

^Transfer substitution awarded based on this agreement

Note – Follow recommended course to maximize transfer credit at New York Tech

Program of Study at New York Institute of Technology
Bachelor of Science in Chemistry

Courses to be completed at New York Tech

Core and Additional Requirements		Credits
The 3XX Seminars required may vary depending on classes completed at Guttman CC		
FCWR 302	Communication for Healthcare Careers, *or*	
FCWR 304	Communication for Technical Professions	3
Seminar 3XX	Seminar – Subject TBD	3
Seminar 3XX, *or*	Seminar – Subject TBD, *or*	
Electives	Electives *(if ENGL 211 completed at Guttman)*	3
Major Requirements		
BIOL 340	Biochemistry	4
CHEM 310, *or*	Quantitative Analysis, *or*	
Science Electives	Science Electives *(if CHEM 241 completed at Guttman)*	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 470	Inorganic Chemistry	3
CHEM	Project Lab or Research	3-4
Electives	Electives (*if MATH 210 completed at Guttman)*	3
MATH 180	Calculus II	4
MATH 235	Applied Statistics, *or*	
MATH 310	Linear Algebra	3
PHYS 170	General Physics I, *or*	
PHYS 175	General Physics for Pre-Med I	4-5
PHYS 180	General Physics II, or	
PHYS 185	General Physics for Pre-Med II	4-5
Science Electives		6
Total credits at New York Institute of Technology		**61-64**

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Charles N. Moore, Dean **Date**
College of Arts and Sciences
New York Institute of Technology

(Effective as of 2026)