Transfer Advising Worksheet – Pathways
A.S. in Science at Guttman CC to B.S. Chemistry, All Tracks at Lehman College

Effective Date: Fall 2023

Guttman Community College:

Common Core	
Required Common Core – 13 credits	
English Composition	6
Mathematical & Quantitative Reasoning *MATH 103 Statistics OR MATH 103A & B OR MATH 120: College Algebra & Trigonometry OR MATH 120.5: College Algebra & Trigonometry with Lab*	3
Life & Physical Sciences *BIOL 211 General Biology*	4
Flexible Core – 18 credits	
World Culture & Global Issues *AMST 203: Civic Engagement in a Global Society*	3
U.S. Experience in Its Diversity *AMST 103: Introduction to Social Justice*	3
Creative Expression *ART 200: The Arts in New York City OR ENGL 211: Cities in Film & Literature*	3
Individual & Society *SOSC 111 Ethnographies of Work I*	3
Scientific World *CHEM 211 General Chemistry I*	4
Individual & Society *SOSC 213 Ethnographies of Work II*	3
Total Common Core	**32**
Associate Degree Major Requirements Remaining as Advised	
BIO 221: General Biology II	4
CHEM 221: General Chemistry II	4
~~BIOL 251: Genetics OR~~ CHEM 241: Quantitative Analysis (required for optimal transfer)	4
MATH 120: College Algebra and Trigonometry OR MATH 120.5: College Algebra & Trigonometry with Lab	3
MATH 201: Pre-Calculus	3
BIOL 231: Microbiology OR LASC 254: Capstone Seminar in the Liberal Arts & Science	3-4
Total Associate Degree Major Credits	**21-22**
Free Electives	
Science Program Electives: BIOL 122 Introduction to Biology, BIOL 231 Microbiology, BIOL 251 Genetics, CHEM 110 Introduction to Chemistry, CHEM 120 Introduction to Biological Chemistry, CHEM 241 Analytical Chemistry, **MATH 210 Calculus (required for optimal transfer)**, SCI 215 Science and Society, LASC 298: Independent Study, INFT 102: Hardware & Software	**6-7**
Total Program Credits	**60**

Lehman College:

College Option	Credits
Choose two of the following: LEH 352 Studies in Literature LEH 353 Studies in the Arts LEH 354 Historical Studies LEH 355 Studies in Philosophy, Theory, and Abstract Thinking	**6**
Bachelor's Degree Major Requirements Remaining as Advised	
CHE 232 Organic Chemistry Lecture I CHE 233 Organic Chemistry Laboratory I CHE 234 Organic Chemistry Lecture II CHE 235 Organic Chemistry Laboratory II CHE 450 Chemistry Seminar (May be repeated for a total of 4 credits.)	13
MAT 176 Calculus II And PHY 168 Physics I for Scientists and Engineers PHY 169 Physics II for Scientists and Engineers	14
<u>Chemistry Concentration:</u> CHE 342 Physical Chemistry Course in Quantum Chemistry CHE 344 Physical Chemistry Course in Kinetics and Thermodynamics CHE 345 Physical Chemistry Laboratory in Quantum Chemistry CHE 347 Physical Chemistry Laboratory in Kinetics and Thermodynamics CHE 442 Inorganic Chemistry CHE 443 Advanced Inorganic Chemistry CHE 444 Biochemistry I CHE 449 Instrumental Analysis MAT 226 Vector Calculus	31
<u>Biochemistry Concentration:</u> CHE 342 Physical Chemistry Course in Quantum Chemistry CHE 344 Physical Chemistry Course in Kinetics and Thermodynamics CHE 345 Physical Chemistry Laboratory in Quantum Chemistry CHE 442 Inorganic Chemistry CHE 443 Advanced Inorganic Chemistry CHE 444 Biochemistry I CHE 446 Biochemistry II CHE 447 Biochemistry Laboratory	26
Remaining credits in the Lehman major	**53-58**
Free Electives	
Students should consult with an advisor when choosing elective courses.	**0-1**
Total Credits Earned at Lehman College	**60-64**
Total Credits Transferred from Guttman Community College	**60**
Total credits Required for Bachelor's degree at Lehman College	**120-124**