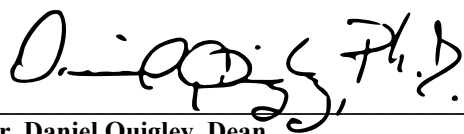


LAGUARDIA COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
<i>Associate of Science Liberal Arts: Mathematics and Science Applied Math</i>		<i>Bachelor of Science in Applied and Computational Mathematics</i>	
Course	Credit	Course	Credit
<b>Semester 1</b>			
LMF101 First Year Seminar for Liberal Arts: Math Science	3	Credit applied to DATA 101 Waiver	3
ENG101 English Composition I (or ENA101)	3	FCWR 101 Writing I	3
MAT115 Algebra and Trigonometry (or MATH 117)	3	General Elective	3
Flexible Core Course	3	General Elective	3
MAT200 Precalculus	4	General Elective	4
<b>Semester 2</b>			
ENG102 English Composition II	3	FCWR 151 Writing II	3
SCB Biology, SCC Chemistry or SCP Physics	3	Science Elective	3
MAT201 Calculus I	4	MATH 170 Calculus I	4
MAC101 Introduction to Computer Science	3	CSCI 125 Computer Programming I	3
Flexible Core Course	3	General Elective	3
<b>Semester 3</b>			
MAT202 Calculus II	4	MATH 180 Calculus II	4
MAT210 Linear Algebra	3	MATH 310 Linear Algebra	3
Unrestricted Elective: 1-2 credits required but may need 3 credit option	2	General Elective	2
Flexible Core Course (Urban Study)	3	General Elective	3
Flexible Core Course - <i>Recommended: Literary Studies</i>	3	ICLT Literature Elective	3
<b>Semester 4</b>			
LIB200 Humanism, Science & Technology	3	ICSS Social Science Elective	3
MAT203 Calculus III	4	MATH 260 Calculus III	4
MAT231 Introduction to Discrete Math	3	CSCI 235 Elements of Discrete Structures	3
MAC190 Object-Oriented Programming	3	CSCI 185 Computer Programming II	3
<b>TOTAL</b>	<b>60</b>	<b>TOTAL</b>	<b>60</b>

Note – Recommended course is identified to maximize transfer credit award at New York Tech.  
Fewer credits may transfer if “Recommended” course is not completed.

**Program of Study at New York Institute of Technology**  
Bachelor of Science in Applied and Computational Mathematics

<u>Courses to be completed at New York Tech:</u>	<u>Credits</u>
<b>Major courses:</b> (35)	
PHYS 170      General Physics I	4
PHYS 180      General Physics II	4
MATH 220      Probability and Statistics	3
MATH 320      Differential Equations	3
MATH 330      Computational Analysis	4
MATH 350      Advanced Calculus	3
MATH 410      Numerical Linear Algebra	3
MATH 490      Mathematical Modeling Capstone	5
MATH 3XX      Mathematics Elective – 300-level and above	3
MATH 3XX      Mathematics Elective: 300-level and above	3
<b>Concentration courses: <i>Choose One</i></b> (16)	
<b>General Concentration</b>	
MATH 450      Partial Differential Equations <i>or</i>	
MATH 455      Numerical Analysis	3
MATH 3XX      Mathematics Elective: 300-level and above	3
Computer Science or Science Elective	3
Computer Science or Science Elective	3
Science Elective	4
<i>or</i>	
<b>Mathematical Modeling Concentration</b>	
MATH 450      Partial Differential Equations	3
MATH 470      Mathematical Fluid Dynamics	3
PHYS 220      General Physics III	4
PHYS 225      Intro to Modern Physics	3
PHYS 450      Mathematical Physics	3
<i>or</i>	
<b>Scientific Computation Concentration</b>	
CSCI 312      Theory of Computations	3
CSCI 335      Design and Analysis of Algorithms	3
MATH 440      Numerical Optimization	3
MATH 455      Numerical Analysis	3
Science Elective	4
<b>Core and Additional Requirements:</b> (9)	
FCWR 3XX      Professional Communication	3
3XX Seminar      Seminar subject based on courses completed at LaGuardia CC	3
3XX Seminar      Seminar subject based on courses completed at LaGuardia CC	<u>3</u>
<b>Total Credits at New York Institute of Technology:</b>	<b>60</b>



Dr. Daniel Quigley, Dean  
 College of Arts and Sciences, New York Institute of Technology

12/6/2023

Date