

Accelerated Bachelor of Science in Mathematical Sciences for M.D., D.M.D., D.D.S., O.D

7 Year Accelerated B.S. in Mathematical Sciences for M.D., D.D.S., D.M.D., or O.D.

(120 credits minimum)

Course	Title	Credits
First Year		
1st Semester		
MATH 111	Calculus I	4
CHEM 125	General Chemistry I	3
BIOL 200	Concepts in Biology	4
HUM 101	English Composition: Writing, Speaking, Thinking I	3
PHYS 111	Physics I	3
PHYS 111A	Physics I Laboratory	1
FRSH SEM	Freshman Seminar	0
Term Credits		18
2nd Semester		
MATH 112	Calculus II	4
CHEM 126	General Chemistry II	3
CHEM 124	General Chemistry Laboratory	1
BIOL 205	Foundations of Biology: Ecology and Evolution Lecture	3
BIOL 206	Foundations of Biology: Ecology and Evolution Lab	1
HUM 102	English Composition: Writing, Speaking, Thinking II	3
PHYS 121	Physics II	3
PHYS 121A	Physics II Laboratory	1
Term Credits		19
Summer		
MATH 213	Calculus III B	4
CHEM 243	Organic Chemistry I	3
Term Credits		7
Second Year		
1st Semester		
MATH 222	Differential Equations	4
MATH 337	Linear Algebra	3
R120 201	Foundations Of Biology	3
R120 202	Foundations Of Biology Lab	1
CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry II Laboratory	2
CS 100	Roadmap to Computing	3
Term Credits		19
2nd Semester		
MATH 331	Introduction to Partial Differential Equations	3
MATH 340	Applied Numerical Methods	3
MATH 333	Probability and Statistics	3
CHEM 473	Biochemistry	3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level)		3
Term Credits		15

Third Year**1st Semester**

MATH 371	Physiology and Medicine	3
MATH 430	Analytical and Computational Neuroscience	3
MATH 450	Methods Of Applied Math	3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level)		3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level)		3
Term Credits		15

2nd Semester

MATH 332	Introduction to Functions of a Complex Variable	3
MATH 451	Methods Appl Math II	3
Math 300+	Elective	3
Social Science GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/social-science-ger)		3
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone)		3
Term Credits		15
Total Credits		108

Code	Title	Credits
Transfer from Professional Program		
Technical Elective		3
Technical Elective		3
Technical Elective		3
Technical Elective		3
Total Credits		12
Code	Title	Credits
Total Credits		120