

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)

First Year

1st Semester

		Credits
MATH 111	Calculus I	4
CHEM 125	General Chemistry I	3
CHEM 125A	General Chemistry Lab I	1
BIOL 200	Concepts in Biology	4
ENGL 101	English Composition: Introduction to Academic Writing	3
PHYS 111	Physics I	3
PHYS 111A	Physics I Lab	1
FYS SEM	First-Year Student Seminar	0

Term Credits

19

2nd Semester

MATH 112	Calculus II	4
CHEM 126	General Chemistry II	3
CHEM 126A	Gen Chemistry Lab II	1
BIOL 205	Foundations of Biology: Ecology and Evolution Lecture	3
BIOL 206	Foundations of Biology: Ecology and Evolution Lab	1
ENGL 102	English Composition: Introduction to Writing for Research	3
PHYS 121	Physics II	3
PHYS 121A	Physics II Lab	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
BIOL 201	Found of Biol: Cell & Molecula	3
BIOL 202	Found of Biol: Cell & Molecula	1
CHEM 244	Organic Chemistry II	3
CHEM 244A	Organic Chemistry I 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 374	Stochastic and Discrete Models in Biology	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		109
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Code	Title	Credits
Transfer from Professional Program		
Technical Elective		3
Technical Elective		3
Technical Elective		3
Technical Elective		2
Total Credits		11

Code	Title	Credits
Total Credits		120