

# BIOLOGY, B.S./DOCTOR OF DENTAL MEDICINE DUAL DEGREE WITH RUTGERS SCHOOL OF DENTAL MEDICINE (RSDM)

Dentistry deals with the prevention, diagnosis, and treatment of diseases and malformations of the teeth, gums and oral cavity. A student participating in this dual-degree program spends three years at New Jersey City University as Biology major pursuing a B.S. degree. In the second year, the student applies for acceptance to the dual-degree program. After the second year, the student takes the Dental Admissions Test (DAT) and applies to RSDM. If accepted, the student spends the following four years at RSDM. After the successful completion of the first year at RSDM, NJCU will grant the student a B.S. degree in Biology. After completing the fourth year of study at RSDM, the student is granted the degree of Doctor of Dental Medicine (D.M.D.).

This program is designed for students entering NJCU from high school, with placements into college-level composition and math courses. Transfer students are not guaranteed to have completed coursework appropriate to join the combined B.S./D.M.D. program. English Composition, Biology, Chemistry and Organic Chemistry must be completed by the end of the second year of study at NJCU to ensure proper preparation for the DAT. All prerequisite science and math courses and their labs will be completed at NJCU after the time of first enrollment at NJCU. A minimum of five (5) biology major courses must be completed at NJCU. A minimum grade of "B" must be attained in each Biology, Chemistry, Physics and Math course, a minimum cumulative GPA of 3.5, and a minimum science GPA of 3.5 are required for acceptance to and retention in the program. No withdrawal or incomplete grades are permitted in any dental school prerequisites. A minimum of 33 credits must be completed in NJCU's General Education Program courses.

Applications and DAT scores must be submitted to AADSAS by December 1st of the year preceding RDMS enrollment. The minimum required DAT scores are: Academic Average 20, Total Science 20. Applicants who meet the objective academic criteria noted above may be invited to an interview with the RDMS Admissions Committee. However, an invitation to an interview does not guarantee acceptance into the dental program. Applicants not invited to an interview, or not selected for admission to RDMS, shall be notified as early as possible, and may reapply for regular admission to RDMS in the following year through AADSAS. Courses intended for transfer from RSDM to NJCU must be completed during the first year of study at RSDM. Any student who does not complete the first year of study at RSDM may return to NJCU to complete the BS degree in Biology.

Code	Title	Credits
<b>Required Biology Courses:</b>		<b>17</b>
BIOL 130	Principles Biology I	4
BIOL 131	Principles Biology II	4
BIOL 230	Cell Biology	4
BIOL 304	Genetics	4
BIOL 440	Biology Seminar	1
<b>Elective Biology Course:</b>		

Elective courses are selected from Biology courses numbered higher than BIOL 230.

<b>Required Chemistry Courses:</b>		<b>18</b>
CHEM 105	General Chemistry I Lecture	3
CHEM 1105	General Chemistry I Recitation/Laboratory	2
CHEM 106	General Chemistry II Lecture	3
CHEM 1106	General Chemistry II Recitation/Laboratory	2
CHEM 207	Organic Chemistry I	3
CHEM 2207	Organic Chemistry I Laboratory	1
CHEM 208	Organic Chemistry II	3
CHEM 2208	Organic Chemistry II Laboratory	1
<b>Physics Required Courses:</b>		<b>8</b>
PHYS 130	College Physics I (Lecture)	3
or PHYS 140	Principles of Physics I - Lecture	
PHYS 1130	Physics I Recitation & Laboratory	1
or PHYS 1140	Principles of Physics I - Laboratory and recitation	
PHYS 131	Physics II (Lecture)	3
or PHYS 141	Principles of Physics II - Lecture	
PHYS 1131	Physics II Recitation & Laboratory	1
or PHYS 1141	Principles of Physics II - Laboratory and Recitation	
<b>Math and Computer Sciences Required Courses:</b>		<b>11</b>
MATH 192	Calculus and Analytic Geometry I	4
MATH 193	Calculus and Analytic Geometry II	4
INTD 180	Computers Tools for Science and Math	3
or MATH 140	Statistics I	
or PSYC 230	Statistics for Social Sciences	
<b>Total Course Credits:</b>		<b>58</b>

- As required by the affiliation agreement, the student will receive the B.S. degree in Biology from New Jersey City University following successful completion of the first year of the Rutgers—School of Dental Medicine curriculum.
- This program is designed for students entering NJCU from high school, with placements into college-level composition and math courses. Transfer students are not guaranteed to have completed coursework appropriate to join the combined B.S./D.M.D. program.
- English Composition, Biology, Chemistry and Organic Chemistry must be completed by the end of the second year of study at NJCU to ensure proper preparation for the DAT.
- All prerequisite science and math courses and their labs must be completed at NJCU subsequent to the time of first enrollment at NJCU.
- A minimum of five (5) biology major courses must be completed at NJCU.
- Minimum science GPA is 3.5, with no grades below "B", subject to change.
- No withdrawal or incomplete grades in any dental school prerequisites.
- A minimum of 36 credits required from NJCU General Education Program courses.
- Applications must be submitted to AADSAS by December 1st of the year preceding NJDS enrollment.
- DAT scores must be submitted to the RDMS Office of Admissions by January 1st of entering year.
- Minimum DAT scores: Academic Average 20, Total Science 20.

12. Applicants who meet the objective academic criteria noted above may be invited to an interview with the NJDS Admissions Committee. However, applicants are advised that the invitation to an interview does not guarantee acceptance into the dental program.
13. Applicants not invited to an interview, or not selected for admission to NJDS, shall be notified as early as possible, and may reapply for regular admission the following year through AADSAS.
14. Courses intended for transfer from RSDM to NJCU must be completed during the first year of study at RSDM.
15. Any student who does not complete the first year of study at RSDM may return to NJCU to complete the BS degree in Biology.

**Freshman**

<b>Semester 1</b>		<b>Credits</b>
ENGL 101 or ESL 101	English Composition I or English Composition I for English as a Second Language Students	4-6
BIOL 130	Principles Biology I	4
CHEM 105	General Chemistry I Lecture	3
CHEM 1105	General Chemistry I Recitation/Laboratory	2
General Education Tier I Course		3
Credits		16-18

<b>Semester 2</b>		
ENGL 102 or ESL 102	English Composition II or	4-6
BIOL 131	Principles Biology II	4
CHEM 106	General Chemistry II Lecture	3
CHEM 1106	General Chemistry II Recitation/Laboratory	2
General Education Tier II Course		3
Credits		16-18

**Sophomore**

<b>Semester 1</b>		
BIOL 230	Cell Biology	4
CHEM 207	Organic Chemistry I	3
CHEM 2207	Organic Chemistry I Laboratory	1
PHYS 140	Principles of Physics I - Lecture	3
PHYS 1140	Principles of Physics I - Laboratory and recitation	1
MATH 192	Calculus and Analytic Geometry I	4
Credits		16

<b>Semester 2</b>		
BIOL 304	Genetics	4
CHEM 208	Organic Chemistry II	3
CHEM 2208	Organic Chemistry II Laboratory	1
PHYS 141	Principles of Physics II - Lecture	3
PHYS 1141	Principles of Physics II - Laboratory and Recitation	1
MATH 193	Calculus and Analytic Geometry II	4
Credits		16

**Junior**

<b>Semester 1</b>		
Biology Elective 2xx (above BIOL 230)		4
MATH 140	Statistics I	3
General Education Tier II Course		3

General Education Tier II Course	3
Credits	13

**Semester 2**

BIOL 440	Biology Seminar	1
General Education Tier II Course		3
General Education Tier II Course		3
General Education Tier II Course		3
General Education Capstone Course		3
Credits		13

**Senior**

**Semester 1**

BIOL 440	Biology Seminar	1
PHYS 130 or PHYS 140	College Physics I (Lecture) ( or Principles of Physics I - Lecture	3
PHYS 1130 or PHYS 1140	Physics I Recitation & Laboratory ( or Principles of Physics I - Laboratory and recitation	1
Minor or Elective Course		3
Minor or Elective Course		3
Minor or Elective Course		3
Credits		14

**Semester 2**

PHYS 131 or PHYS 141	Physics II (Lecture) ( or Principles of Physics II - Lecture	3
PHYS 1131 or PHYS 1141	Physics II Recitation & Laboratory ( or Principles of Physics II - Laboratory and Recitation	1
Minor or Elective Course		3
Minor or Elective Course		3
Minor or Elective Course		3
Minor or Elective Course		3
Credits		16

Total Credits	120-124
---------------	---------