

North South University
BS in Biochemistry & Biotechnology

Requirements for a FOUR YEAR Bachelor of Science degree in Biochemistry and Biotechnology

Semester-Wise Course Distribution

1 st Year		
Semester 1	Course Name	SCH
	ENG102/ENG103-English Composition I	3
	BIO103-Principle of Biology I	4
	POL101/POL104-Government/Political Science	3
	Sub-Total	10
Semester 2	Course Name	SCH
	CHE101 - General Chemistry I	4
	MIS105 - Introduction to Computers	3
	PHI101 - Philosophy/Ethics	3
	Sub-Total	10
Semester 3	Course Name	SCH
	HIS101 Bangladesh History and Culture	3
	ENG111 - English Speech	3
	MAT112/MAT116 - Mathematics (College Algebra/Trigonometry)	3
	SOC101/GEO205/ANT101 - Soc, Geo or Anthropology	3
	Sub-Total	12
	Total SCH in 1st Year	32
2 nd Year		
Semester 4	Course Name	SCH
	ENG105 - English Composition II	3
	CHE201 - General Chemistry II	4
	MAT120 - Survey of Calculus	3
	Sub-Total	10
Semester 5	Course Name	SCH
	PHY107L - General Physics I	4
	ECO101/ECO104 - Economics (Introduction to Micro/Macro)	3
	BIO201 - Principles of Biology II	4
	Sub-Total	11
Semester 6	Course Name	SCH
	HIS102 Introduction to World civilization	3
	ENG115 - Literature (English, Bengali etc)	3
	STA172 - Statistics I	3
	Sub-Total	9
	Total SCH in 2nd ear	30
3 rd Year		
Semester 7	Course Name	SCH
	CHE202 - Organic Chemistry I	4
	BBT313 - Human Physiology	3
	BBT315 - Metabolism	3
	Sub-Total	10
Semester 8	Course Name	SCH
	CHE301 - Organic Chemistry II	4
	BBT314 - Chemistry and Application of Enzymes	3
	BBT312 - Molecular Biology	4
	Sub-Total	11

Semester 9	Course Name	SCH
	BBT316 - Immunology	4
	BBT317 - Molecular Genetics	3
	BBT413 - Plant Biochemistry & Biotechnology	3
	Sub-Total	10
	Total SCH in 3rd Year	31
4th Year		
Semester 10	Course Name	SCH
	BBT318 - Cell Biology	3
	Elective I	3
	Free Elective I	3
	Sub-Total	9
Semester 11	Course Name	SCH
	BBT422 - Senior Seminar	3
	Elective II	3
	Elective III	3
	Sub-Total	9
Semester 12	Course Name	SCH
	BBT230 - Statistics II (Biostatistics)	3
	Free Elective II	3
	Free Elective III	3
	Sub-Total	9
	Total SCH in 4th Year	27
	Total Credit Hours in Four (1st + 2nd + 3rd + 4th) Years	120

List of Elective Courses:

9 Credits

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|---|---|
| 1. BBT415 - Molecular Biotechnology | 3 |
| 2. BBT416 - Bioinformatics | 3 |
| 3. BBT417 - Neurochemistry and Endocrinology | 3 |
| 4. BBT418 - Pharmaceutical Biotechnology | 3 |
| 5. BBT419 – Clinical Biochemistry | 3 |
| 6. BBT421 – Applied Immunology and Immunogenetics | 3 |

Recommended Free Elective Courses:

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|---|---|
| 1. MIC301 Basic Microbiology | 3 |
| 2. MIC305 Food Microbiology and Quality Control | 3 |
| 3. MIC306 Virology | 3 |
| 4. MIC404 Environmental Microbiology & Bioremediation | 3 |
| 5. MIC403 Microbial Biotechnology | 3 |