

Study Plan for B.Sc. in Biotechnology

| Year | Course Code | Course Name | Pre-requisites | Credit Hours | Course Code | Course Name | Pre-requisites | Credit Hours |
|---------------------------------|-----------------------|---------------------------------|----------------------------|--------------|-----------------------|---------------------------------------------|------------------|--------------|
| Semester One (Pre-Major) | | | | | Semester Two | | | |
| 1 | ARAB100 | Arabic Language I | | 3 | BIOL242/L | Introductory Genetics | BIOL101/L | 3 |
| | COMP101/L | Computer Skills | Comp-A/B, Digital Literacy | 3 | ARAB101 | Arabic Language II | ARAB100 | 3 |
| | HIST150 | Islamic Civilization | | 3 | ENGL152 | English Language II | ENGL150 | 3 |
| | BIOL101/L | General Biology I | | 4 | CHEM101/L | General Chemistry I | | 4 |
| | ENGL150 | English Language I | | 3 | BIOL102/L | General Biology II | BIOL101/L | 4 |
| | Semester Total | | | | 16 | Semester Total | | |
| Semester Three | | | | | Semester Four | | | |
| 2 | ENGL155 | Communication Skills | ENGL152 | 3 | BIOL350/L | Cell Biology | CHEM334/L | 3 |
| | BIOL363/L | Biological Data Handling | | 3 | BIOL220/L | Animal Physiology | BIOL102/L | 3 |
| | CHEM265/L | Organic Chemistry I | CHEM102/L | 4 | CHEM334/L | Biochemistry | BIOL101/L | 3 |
| | BIOL344/L | Introductory Microbiology | BIOL102/L | 3 | BIOL330/L | Bacteriology | BIOL334/L | 3 |
| | BIOL211/L | Plant Physiology | BIOL102/L | 3 | BIOL345/L | Introduction to Biotechnology | BIOL242, BIOL344 | 3 |
| | | | | | | University Elective | | 3 |
| Semester Total | | | | 16 | Semester Total | | | |
| Semester Five | | | | | Semester Six | | | |
| 3 | BIOL364/L | Mycology | BIOL344/L | 3 | PHYS101/L | General Physics I | MATH116 | 4 |
| | BIOL410/L | Microbial Biotechnology | BIOL345/L | 3 | BIOL412/L | In vitro Biotechnology | BIOL345/L | 3 |
| | BIOL425/L | Molecular Biology | BIOL242/L | 3 | STAT101 | Introduction to Statistics | | 4 |
| | MATH116 | Pre-calculus | | 4 | | Department Elective 2 | | 3 |
| | BIOL339 | Research Methodology in Biology | BIOL363/L | 2 | MNGT100 | Entrepreneurship: Creativity and Innovation | | 3 |
| | | Department Elective 1 | | 3 | | | | |
| Semester Total | | | | 18 | Semester Total | | | |

| Semester Seven | | | | | Semester Eight | | | | |
|-------------------------|----------------------|----------------------------------------------------|-----------|-----------|-----------------------|--------------------------|-----------|---|-----------|
| 4 | COMP151/L (C.E 2) | Intro. to Algorithm & Programming (C.E 2) | COMP101/L | 4 | BIOL442/L | Embryology | BIOL102/L | 3 | |
| | CHEM102/L | General Chemistry II | CHEM101/L | 4 | BIOL451/L | Toxicology | CHEM334/L | 3 | |
| | BIOL450/L | Immunology | BIOL344/L | 3 | | Department Elective 4 | | 3 | |
| | BIOL455 | Research Project in Biology | BIOL339 | 4 | | Department Elective 5 | | 3 | |
| | | Department Elective 3 | | 3 | | Department Elective 6 | | 3 | |
| | | | | | | Department Elective 7 | | 2 | |
| Semester Total | | | | 18 | Semester Total | | | | 17 |
| Grand Total: 137 | | | | | | | | | |