

Master of Science Program in Biotechnology

Research Focus

- Enzyme Biotechnology
- Renewable Resource Technology
- Plant Cell Technology
- Molecular Biotechnology

Structure of the Program

1. Credit Requirements *

| Requirements | Option 1.2 |
|-----------------------------|------------|
| Coursework | 24 |
| - Core Courses | 9 |
| - Electives | 15 |
| Required Non-credit Courses | 5 |
| Thesis | 12 |
| Total | 36 |

* Minimum credits required

2. Core Courses

| Requirements | Option 1.2 | |
|----------------------------------|------------|----------|
| | Course No. | Cr. |
| Biotechnology | 275511 | 3 |
| Advanced Molecular Bioscience | 275512 | 3 |
| Instrumentation in Biotechnology | 275572 | 3 |
| Total | 3 | 9 |

3. Electives

| Requirements | Option 1.2 | |
|--|------------|------------|
| | Course No. | Cr. |
| Advanced Gene Technology | 275513 | 3 |
| Environmental Biotechnology | 275541 | 3 |
| Biotechnology for Waste and Wastewater Treatment | 275543 | 3 |
| Biodegradation and Bioremediation | 275544 | 3 |
| Renewable Resources Technology | 275545 | 3 |
| Plant Genetics Resources | 275554 | 3 |
| Advanced Plant Biotechnology | 275555 | 3 |
| Advanced Plant Tissue Culture | 275561 | 3 |
| Bioinformatics | 275573 | 3 |
| Molecular Systematics and Evolution | 275574 | 3 |
| Special Topics in Biotechnology | 275581 | 3 |
| Total | ≥5 | ≥15 |

4. Required Non-credit Courses

| Requirements | Option 1.2 | |
|--|------------|----------|
| | Course No. | Cr. |
| Research Methodology in Science and Technology | 275571 | 3 |
| Seminar in Biotechnology 1 | 275595 | 1 |
| Seminar in Biotechnology 2 | 275596 | 1 |
| Total | 3 | 5 |

5. Thesis Credit Requirements

| Requirements | Option 1.2 | |
|----------------------|------------|-----------|
| | Course No. | Cr. |
| Thesis 1, Option 1.2 | 275590 | 3 |
| Thesis 2, Option 1.2 | 275591 | 4 |
| Thesis 3, Option 1.2 | 275592 | 5 |
| Total | 3 | 12 |