

Master of Science Program in Environmental Science

Research Focus

- Environmental Pollution and Control
- Ecology and Conservation
- Health Impact Assessment
- Natural Resources and Environmental Management

Structure of the Program

1. Credit Requirements *

| Requirements | Option 1.1 | Option 1.2 |
|-----------------------------|------------|------------|
| Coursework | - | 24 |
| - Core Courses | - | 12 |
| - Electives | - | 12 |
| Required Non-credit Courses | 6 | 6 |
| Thesis | 36 | 12 |
| Total | 36 | 36 |

* Minimum credits required

2. Core Courses

| Requirements | Option 1.1 | | Option 1.2 | |
|---|------------|-----|------------|-----------|
| | Course No. | Cr. | Course No. | Cr. |
| Applied Environmental Science | - | - | 105511 | 3 |
| Advanced Environmental Impact Assessment | - | - | 105512 | 3 |
| Integrated Natural Resources and Environmental Management | - | - | 105513 | 3 |
| Environmental Ecology | - | - | 105514 | 3 |
| Total | - | - | 4 | 12 |

3. Electives

| Requirements | Option 1.1 | | Option 1.2 | |
|--|------------|-----|------------|-----|
| | Course No. | Cr. | Course No. | Cr. |
| Environmental Pollution and Control | | | | |
| Fate and Transport of Contaminants in the Environment | - | - | 105520 | 3 |
| Air Pollution and Control | - | - | 105521 | 3 |
| Wastewater and Treatment Technology | - | - | 105522 | 3 |
| Soil Pollution and Management | - | - | 105523 | 3 |
| Agricultural Pollution and Management | - | - | 105524 | 3 |
| Hazardous Waste and Management | - | - | 105525 | 3 |
| Solid Waste and Management | - | - | 105526 | 3 |
| Clean Technology | - | - | 105527 | 3 |
| Wastewater Microbiology | - | - | 105528 | 3 |
| Treatment Wetland | - | - | 105529 | 3 |
| Ecology and Conservation | | | | |
| Conservation and Management of Soil Water and Forest Resources | - | - | 105540 | 3 |
| Conservation and Management of Biodiversity Resources | - | - | 105541 | 3 |
| Forest Resource Management | - | - | 105542 | 3 |
| Aquatic Ecology | - | - | 105543 | 3 |
| Tropical Ecology | - | - | 105544 | 3 |
| Water Resource Management | - | - | 105545 | 3 |
| Global Climate Change Ecology | - | - | 105546 | 3 |
| Ecotourism Management | - | - | 105547 | 3 |
| Integrated Watershed Management | - | - | 105548 | 3 |
| Health Impact Assessment | | | | |
| Health Risk Assessment | - | - | 105551 | 3 |
| Health Impact Assessment | - | - | 105552 | 3 |
| Environmental Toxicology | - | - | 105553 | 3 |
| Health Risk Management | - | - | 105554 | 3 |
| Occupational Health | - | - | 105555 | 3 |
| Exposure Assessment | - | - | 105556 | 3 |

| Requirements | Option 1.1 | | Option 1.2 | |
|--|------------|-----|------------|-----|
| | Course No. | Cr. | Course No. | Cr. |
| Natural Resources and Environmental Management | | | | |
| Natural Resources and Environmental Economy | - | - | 105561 | 3 |
| Application of Geo-Informatics for Natural Resources and Environment | - | - | 105562 | 3 |
| Remote Sensing for Natural Resources and Environment | - | - | 105563 | 3 |
| Urban Environmental Management | - | - | 105564 | 3 |
| Environmental Laws and Policy | - | - | 105565 | 3 |
| Others | | | | |
| Selected Topics in Environmental Science | - | - | 105583 | 3 |
| Total | - | - | ≥4 | ≥12 |

4. Required Non-credit Courses

| Requirements | Option 1.1 | | Option 1.2 | |
|--|------------|----------|------------|----------|
| | Course No. | Cr. | Course No. | Cr. |
| Seminar 1 | 105581 | 1 | 105581 | 1 |
| Seminar 2 | 105582 | 1 | 105582 | 1 |
| Research Methodology in Science and Technology | 105598 | 3 | 105598 | 3 |
| Learning Skill for Graduate Studies | 105599 | 1 | 105599 | 1 |
| Total | 4 | 6 | 4 | 6 |

5. Thesis Credit Requirements

| Requirements | Option 1.1 | | Option 1.2 | |
|----------------------|------------|-----------|------------|-----------|
| | Course No. | Cr. | Course No. | Cr. |
| Thesis 1, Option 1.1 | 105591 | 9 | - | - |
| Thesis 2, Option 1.1 | 105592 | 9 | - | - |
| Thesis 3, Option 1.1 | 105593 | 9 | - | - |
| Thesis 4, Option 1.1 | 105594 | 9 | - | - |
| Thesis 1, Option 1.2 | - | - | 105595 | 3 |
| Thesis 2, Option 1.2 | - | - | 105596 | 3 |
| Thesis 3, Option 1.2 | - | - | 105597 | 6 |
| Total | 4 | 36 | 3 | 12 |