**Course List for *Bachelors degree* in Environmental Science and Management**

**Core Courses for all students (82 credits):**

|  |  |
| --- | --- |
| CHE 101 | General Chemistry |
| ENV 102 | Environmental Biology |
| ECO 103 | Introduction to Economics |
| MIS 105 | Introduction to Computers |
| ENV 107 | Introduction to Environmental Science |
| ENV 172 | Introduction to Statistics |
| ENV 203/GEO 205 | Introduction to Geography |
| ENV 207 | Environment and Health |
| ENV 208 | Environmental Hazards and Disaster Management |
| ENV 214 | Environmental Management |
| ENV 215 | Ecology (***4 credits***) |
| ENV/ECO 260 | Introduction to Environmental and Natural Resource Economics (pre-requisite: ECO/ENV 103) |
| ENV 307 | Urban Environmental Management |
| ENV 315 | Environmental Ethics |
| ENV 316 | Geographical Information Systems |
| ENV 373 | Environmental Impact Assessment and Monitoring |
| ENV 405 | Population, Poverty and Environment |
| ENV 408 | Environmental Pollution Control |
| ENV 409 | Environmental Policy, Planning and Politics |
| ENV 410 | Integrated Water Resource Planning and Management |
| ENV 414 | Waste Management |
| ENV 419 | Forest Management |
| ENV 425 | Ecological Economics (pre-requisite ENV 215 & ENV/ECO 260) |
| ENV 430 | Environmental Laws and Regulations |
| ENV 455 | Research Methods |
| ENV 498 | Internship |
| ENV 499 | Thesis |

**Environmental Science**

This will introduce the students with the understanding of different environmental issues and accordingly prepares them to explore the relationships between humans and their environment in a proactive manner. The student employs problem-solving methods, data-search strategies, analysis, evaluation, and prediction in their study of complex environmental issues.

**Science Concentration Core Courses (15 credits):**

|  |  |  |  |
| --- | --- | --- | --- |
| MAT 120 | | Calculus I | |
| ENV 205 | | Climate Change | |
| ENV 209 | | Environmental Chemistry | |
| ENV 375 | | Biostatistics (pre-requisite: ENV 102 & ENV 172) | |
| ENV 436 | | Toxicology and Xenobiotics | |
|  | |  | |
| **Science Concentration Elective Courses (15 credits):** | |  | |
| ENV 204 | | Soil Science | |
| ENV 303 | | Environmental Hydrology | |
| ENV 304 | | Environmental Microbiology | |
| ENV 305 | | Water Supply and Treatment | |
| ENV 311 | | Geology and Geomorphology | |
| ENV 312 | | Biogeochemistry (pre-requisite ENV 209) | |
| ENV 313 | | Biodiversity and the Preservation of Species | |
| ENV 401 | | Sustainable Agriculture | |
| ENV 402 | | Environmental Modeling | |
| ENV 404 | | Environmental Issues in Bangladesh | |
| ENV 407 | | Quantitative Applications in Environmental Studies | |
| ENV 412 | | Coastal Zone Management | |
| ENV 413 | | Groundwater Assessment  Development and Management | |
| ENV 415 | | Waste Treatment | |
| ENV 418 | | Conservation and Sustainable Development | |
| ENV 421/ECO 486 | | Energy Economics and Policy | |
| ENV 450 | | System Analysis for Environmental Planning | |
| ENV 495 | | Environmental Research Using Geographical Information System | |
| ENV 497 | | Special Topic in Environmental Studies | |
| **Core Courses** | **82** | |
| **Concentration Core Courses** | **15** | |
| **Concentration Elective Courses** | **15** | |
| **GED Courses** | **(incl. ENG 103 & ENG 105)                             12** | |
| **Open Elective Courses** | **06** | |
| **Total** | **130** | |

Old information before 07-08-2014

**Environmental Management**

This will provide you with the knowledge of the contemporary field of environmental policy, planning, and management in the Bangladesh and international context. It also prepares you to address many of the challenges faced by our environment locally and globally. The program bridges the gap between science and management, incorporating fundamental biophysical and social sciences and multidisciplinary skills in environmental management, decision making and policy analysis.

**Management Concentration Core Courses (15 credits):**

|  |  |
| --- | --- |
| ECO 134 | Applies Mathematics I |
| MGT 210 | Principles of Management |
| ENV 372 | Techniques of Environmental Valuation |
| ENV 403 | Global Environmental Issues and Politics |
| ENV 432 | Corporate Environmental Management (pre-requisite ENV 214) |

**Management Concentration Elective Courses (15 credits):**

|  |  |
| --- | --- |
| ENV 206 | Environmental Sociology |
| ENV 306 | Sustainable Rural Community Design |
| ENV 317 | Environmental Psychology |
| ENV 318 | Gender Issues and Sustainable Development |
| ENV 321 | Environmental Organizations |
| ENV 354/ECO 354 | Environmental and Natural Resources Economics |
| ENV 380 | Environment and Mass Communications |
| ENV 404 | Environmental Issues in Bangladesh |
| ENV 406 | Trade, Technology Transfer and Environment |
| ENV 412 | Coastal Zone Management |
| ENV 416 | Environmental Negotiations and Mediations |
| ENV 417 | Environment Conflict and Security |
| ENV 418 | Conservation and Sustainable Development |
| ENV 421/ECO 486 | Energy Economics and Policy |
| ENV 431 | Culture, Religion and Environment |
| ENV 434 | Environmental Accounting |
| ENV 495 | Environmental Research Using Geographical Information System (***1 credit***) |
| ENV 497 | Special Topic in Environmental Studies |

|  |  |
| --- | --- |
| **Core Courses** | **82** |
| **Concentration Core Courses** | **15** |
| **Concentration Elective Courses** | **15** |
| **GED Courses** | **(incl. ENG 103 & ENG 105)                             12** |
| **Open Elective Courses** | **06** |
| **Total** | **130** |

Old Informaiton before 07-08-2014