

## Program Summary

The Master of Science in Environmental Studies (MSES) is an interdisciplinary program that combines natural and physical sciences with economics and the social sciences. The curriculum is designed to equip our students with the necessary research & management competencies in the fields of:

- (1) **Industrial Ecology** and
- (2) **Natural Systems Studies.**

The program prepares our graduates to be effective environmental educators, researchers, managers, and planners in the academe, industry, government and non-government institutions

## Course Requirements

- [1] Completion of 26 units of Core Courses, required of all students of the program regardless of their field of specialization. Included is a 6-unit MS Thesis in which the student will work on a research problem related to the chosen field of specialization;
- [2] Completion of 6 units of Qualified Electives related to the chosen field of specialization; and
- [3] Completion of a 3-unit Elective course that is not necessarily related to the field of specialization but may provide the student with the competencies for independent study or work.

### Core Courses (26 units required)

ENS 201	Ecosystem Structure and Dynamics	(3)
ENS 211	Systems Analysis and Quantitative Methods in Natural Resources Management	(3)
ENS 220	Institutions and the Environment	(3)
ENS 240	Resource Economics	(3)
ENS 294	Research Methods	(3)
ENS 295	Environmental Impact Assessment	(4)
ENS 299	Graduate Seminar	(1)
ENS 300	M.S. Thesis	(6)

### Qualified Electives leading to a field of specialization (6 units required)

#### A. Industrial Ecology

ENS 253	Industrial Ecology	(3)
ENS 254	Waste Management	(3)
ENS 256	Air Quality Management	(3)

#### B. Natural Systems Studies

ENS 232	Landscape Ecology	(3)
ENS 233	Advanced Aquatic Ecology	(3)
ENS 236	Restoration Ecology	(3)

### Electives (3 units required)

ENS 242	Economic Valuation of Environmental and Natural Resources Systems	(3)
ENS 246	Advanced Resource Economics	(3)
ENS 252	Environmental Chemistry and Toxicology	(3)
ENS 270	Dynamics of Population, Resources and Environment	(3)
ENS 272	Environmental Psychology	(3)
ENS 274	Gender and Environment	(3)
ENS 281	Geographic Information System and Remote Sensing	(3)
ENS 291	Special Topics	(3)
TOTAL NUMBER OF UNITS		35

## Study Plan

### First Year

<i>1<sup>st</sup> Semester</i>		<i>2<sup>nd</sup> Semester</i>	
ENS 201	3	ENS 211	3
ENS 240	3	ENS 220	3
Total	6	Total	6

### Second Year

<i>1<sup>st</sup> Semester</i>		<i>2<sup>nd</sup> Semester</i>	
ENS 294	3	ENS 295	4
Elective	3	Qualified elective	3
Total	6	Total	7

### Third Year

<i>1<sup>st</sup> Semester</i>		<i>2<sup>nd</sup> Semester</i>	
ENS 299	1	ENS 300	3
Qualified Elective	3		
ENS 300	3		
Total	7	Total	3

- Full-time students can take 12-13 units per semester.

## Program Admissions

- [1] A bachelor's degree preferably in the biological or physical sciences, mathematics, engineering, economics or other related fields
- [2] General weighted average of 2.5 or better in the undergraduate degree
- [3] Application documents to be submitted to the Department Chair (for the issuance of the Notice of Admission to the MSES Program):
  - Completed application form;
  - Original copy of the official transcript of records;
  - Recommendation letters from at least two former professors or immediate supervisors;
  - Statement of Purpose (300-500 word essay on applicant's academic, professional, and personal intentions and objectives or any special interest; reasons for transfer from other graduate school);
  - Certification of proficiency in English (TOEFL) , if English is not the medium of instruction in the country of origin
- [4] Application fee: A non-refundable fee of PHP 250.00 for Filipino citizens or US\$25 for foreign nationals to be paid at the UP Cebu Cash Office; or send a check or money order to "University of Philippines Cebu" (Application will be processed once application fee is paid.)

## Deadlines

First semester admission - 2 weeks before registration period (no second semester admission)

**Enrollment:** July or August (contact Ms. Camille at cecaputol@up.edu.ph for the date of registration)

## Schedule of Fees (may be subject to change)

Tuition (per unit)	Php	600.00
Miscellaneous fees		995.00
Student fund		46.50
Entrance		30.00
Deposit		100.00
ID fee		60.00
Education development fee for foreign students		
- Non-resident	US\$	500.00
- Resident		250.00

**Registration Requirements** (place inside a long brown envelope and submit to the College Secretary & Registrar's Office upon enrollment)

1. Notice of Admission issued by the Department Chair after the submission and evaluation of documents for Program Admission
2. 2x2 ID photo (3 copies)
3. Honourable dismissal from school last attended (1 original & 1 photocopy)
4. Transcript of records (1 original & 3 photocopies)
5. Birth certificate (NSO authenticated, 1 original & 3 photocopies)
6. Marriage contract (for married female only, 3 copies)
7. Medical clearance to be issued by UP Cebu clinic (after presenting X-ray, CBC, urinalysis, and blood typing results)

**For inquiries, please write or call:**

**THE DEPARTMENT OF BIOLOGY AND ENVIRONMENTAL SCIENCE**

Master of Science in Environmental Studies  
Program

**COLLEGE OF SCIENCE**

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UNIVERSITY OF THE PHILIPPINES  
CEBU  
College of Science



Master of Science in Environmental  
Studies

Areas of Specialization:

- Industrial Ecology
- Natural Systems Studies