



University of Southeastern Philippines

College of Agriculture and Related Sciences

Master of Science in Agriculture Major: Soil Science

CMO No. 15, series of 2019
Approved per BOR Resolution No. 25 s. 2023
Effective 1st sem., S.Y. 2022-2023

I. FOUNDATION COURSES

Course No.	Course Title	Units	Pre-requisites
STAT 160	Research Methods and Experimental Design	3	None
CHEM 7111	Intermediary Metabolism	3	None
AGRI 7122	Precision Agriculture	3	None

II. MAJOR COURSES

Course No.	Course Title	Units	Pre-requisites
SS 7111	Genesis, Morphology and Classification of Soils	3	None
SS 7112	Advanced Soil Physics	3	None
SS 7113	Advanced Soil Chemistry	3	None
SS 7114	Advanced Soil Microbiology	3	None
SS 7121	Soil and Water Conservation	3	None
SS 7122	Rehabilitation of Mined and Degraded Soils	3	None
SS 7123	Properties and Management of Soils in the Tropics	3	None
SS 7124	Land Resource Evaluation	3	None
SOIL 290	Special Topics in Soil Science*	2	None
SOIL 299	Graduate Seminar in Soil Science*	1	None

III. ELECTIVES

Course No.	Course Title	Units	Pre-requisites
	Elective 1	3	None
	Elective 2	3	None

IV. THESIS

Course No.	Course Title	Units	Pre-requisites
SOIL 300	Master's Thesis	6	Pass or exempted in the comprehensive examination

*Mandatory course

Elective (6 units minimum)

SS 7125 Land Information System
EXED 7126 Leadership and Organizational Management
AGRO 7126 Agro-forestry, Enterprise and Tourism Management
AGRI 7132 Data Science in Agriculture
SS 7131 Advanced Soil Fertility and Plant Nutrition

Note: Electives are courses offered in the graduate programs in USEP as prescribed by the Advisory Committee.

SUMMARY	UNITS
Foundation Course	9
Major Course	15
Electives (at least 2 courses)	6
Master's Thesis	6
TOTAL NUMBER OF UNITS	36

WE BUILD DREAMS WITHOUT LIMITS

Address: University of Southeastern Philippines
Tagum-Mabini Campus, Apokon
Tagum City, Philippines 8100

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I. Program Outcomes

PGO1 Demonstrate relevant management skills in specialized agricultural operations.

PGO2 Apply advanced knowledge and skills in the conduct of relevant and innovative research in specialized, inter- and multi-disciplinary fields in agriculture for effective and sustainable farm management.

PGO3 Disseminate packaged agricultural research-based and innovative methods to various clienteles for sustainable and profitable agri-enterprises.

II. Type of Graduate Program (Thesis Track under the Master of Science (MSc) Academic Track)

Major Requirement and Student Output (CMO 15, s. 2019)

- Passing the comprehensive examination
- Thesis (6 units)
- At least one (1) publication in a refereed journal or juried creative work outlet

III. Admission Requirements

Applicants for the Master of Science in Agriculture (MSA) program need to meet the following qualifications:

1. Must be a graduate of Bachelor of Science in Agriculture, or any allied programs who had taken at least 12 units of agriculture-related courses. Students not vertically aligned to the different majors (Agronomy, Animal Science, Crop Protection, Horticulture, and Soil Science) under the MSA program may be required to take additional courses prescribed by the Advisory Committee.
2. Must have a GWA of at least 2.0. In case the applicant cannot satisfy this requirement, the recommendation given by the former professors serves as a basis for acceptance.
3. Must have a GSAT score of at least 80%. In case the GSAT score falls between the ranges of 70% to 79%, the applicant is granted admission to the MSA program on probationary status and can take only 9 units. Probationary status is lifted if, at the end of the first semester, the student obtains a GWA of 2.0 or better, and has no failing grades or incomplete (INC) marks in any courses.
4. Must submit three concept papers aligned to the CARS Research Priorities in Issues on Global Warming, Biotechnology, Food Production and Security, and Urban Agriculture. The paper will be the basis for selecting the Adviser.
5. Must have passed the entry requirements as stipulated in the graduate school manual.

IV. Retention Policy

Students in the MSA program must:

1. Maintain a minimum GPA of 2.0 in any given semester;
2. Pass the comprehensive examination, and
3. Comply with the minimum standards as stipulated in the graduate school manual.

V. Publication

Published research output to refereed journals is required to obtain the degree.

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