

# **MASTER OF SCIENCE PROGRAM IN SUSTAINABLE LAND USE AND NATURAL RESOURCE MANAGEMENT**

## **1. Name of the Program**

Master of Science Program in Sustainable Land Use and Natural Resource Management

## **2. Name of Degree**

Full name: Master of Science (Sustainable Land Use and Natural Resource Management)

Abbreviated name: M.S. (Sustainable Land Use and Natural Resource Management)

## **3. Responsible Units** Faculty of Social Sciences and the Graduate School, Chiang Mai University

## **4. Philosophy and Purposes of the Program**

### **4.1 Philosophy**

The degradation of land and other natural resources has become a major crisis in Thailand and other countries as well. The main reason for such problem is an absence of the systematic body of knowledge on the relationship between natural ecology and human ecology. In addition, development efforts in tackling the natural resource degradation have not been integrated, which results in creating a gap in the body of knowledge. In response, four institutions—Kasetsart University, Chiang Mai University, Maejo University, and Royal Forest Department—have developed the sustainable land use and natural resource management curriculum using an multidisciplinary approach. This collaborative effort aims to achieve the participatory learning with key actors in natural resource management at the community, watershed, and regional levels. And also, it responds to need for personnel, who specialize in both research and development on sustainable land use and natural resource management with an aim of utilizing a multidisciplinary approach to land use and natural resource management.

### **4.2 Purposes**

4.2.1 To produce graduate students in sustainable land use and natural resource management, who are well-equipped with both theory and practice and able to apply acquired knowledge in solving the problem of land use and natural resources at the national and international levels.

4.2.2 To mobilize the personnel and resources for research and development in sustainable land use and natural resource management.

4.2.3 To strengthen the management system in solving the problem of land use and natural resources based on the multidisciplinary approach and practical knowledge derived from national and international.

4.2.4 To use academic knowledge with integrity and ethics, to self and social development for sustainable development.

## **5. Curriculum structure**

### **5.1 Plan A Type A1**

**Degree Requirements** **36 credits**

**A. Thesis** **36 credits**

171797 Thesis 36 credits

### **B. Academic Activities**

(1) A student has to organize and present a seminar on the topic related to his/her thesis once every semester for at least 3 semesters and students have to attend seminar every semester that the course is offered.

(2) The whole or part of a thesis must be published/accepted for publication in journal or an academic media which is accepted in that program, or presented in the international conference with proceedings which have an editorial board which student must be the first author at least 2 full academic papers or have petty patent or patent.

Moreover, it can be search or checked in the form of printed and electronic source.

(3) A student has to report thesis progression to the Graduate School every semester, for approval by the Chairman of the Graduate Study Committee.

### C. Non-credit Courses

1. Graduate School requirement : a foreign language
2. Program requirement

171791 Research Methods in Sustainable Land Use and Natural Resource Management 3 credits

171792 Seminar 1 1 credits

171793 Seminar 2 1 credits

### D. Qualifying Examination

A student must take a qualifying examination in second semester, first year for comprehensive examination and submit thesis proposal.

### 5.2 Plan A Type A 2

<b>Degree Requirements</b>	<b>Total</b>	<b>a minimum of</b>	<b>36 credits</b>
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<b>A. Coursework</b>		<b>a minimum of</b>	<b>24 credits</b>
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1. Graduate Courses		a minimum of	24 credits
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1.1 Field of concentration courses		a minimum of	24 credits
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1.1.1 Required courses			15 credits
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171711 Land Use and Natural Resource Management at Community Level			5 credits
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171712 Land Use and Natural Resource Management at Sub-watershed Level			4 credits
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171713 Land Use and Natural Resource Management at Watershed Level			3 credits
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171795 Interdisciplinary Field Practicum			3 credits
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1.1.2 Elective courses		a minimum of	9 credits
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171761 Applied Geographic Systems for Land Use and Natural Resource Management			3 credits
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171765 Environment, Social and Health Impact Assessment			3 credits
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171766 Organization and Sustainable Natural Resource Management in Watershed Level			3 credits
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171767 Alternative Energy Management			3 credits
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171768 Ecological and Cultural Tourism Management			3 credits
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171769 Selected Topics in Sustainable Land Use and Natural Resource Management			3 credits
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<b>B. Thesis</b>			<b>12 credits</b>
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171799 Thesis			12 credits
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### C. Non-credit Courses

1. Graduate School requirement:			a foreign language
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2. Program requirement			
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171791	Research Methods in Sustainable Land Use and Natural Resource Management	3 credits
171792	Seminar 1	1 credits
171793	Seminar 2	1 credits

#### D. Academic Activities

(1) A student has to organize and present a seminar on the topic related to his/her thesis once every semester for at least 3 semesters and students have to attend seminar every semester that the course is offered.

(2) The whole or part of a thesis must be published/accepted for publication in journal or an academic media which is accepted in that program, or presented in the international conference with proceedings which have an editorial board which student must be the first author at least 1 full academic paper or have petty patent or patent.

Moreover, It can be search or checked in the form of printed and electronic source.

#### 5.3 Plan B

##### Degree Requirements

Total : a minimum of 36 credits

##### Curriculum Structure

##### A. Coursework

a minimum of 30 credits

1. Graduate Courses a minimum of 30 credits

1.1 Field of concentration courses a minimum of 30 credits

1.1.1 Required courses 15 credits

171711 Land Use and Natural Resource Management 5 credits  
at Community level

171712 Land Use and Natural Resource Management 4 credits  
at Sub-watershed level

171713 Land Use and Natural Resource Management 3 credits  
at Watershed level

171795 Interdisciplinary Field Practicum 3 credits

1.1.2 Elective courses a minimum of 15 credits

171761 Applied Geographic Systems for Land Use 3 credits  
and Natural Resource Management

171765 Environment, Social and Health Impact 3 credits  
Assessment

171766 Organization and Sustainable Natural 3 credits  
Resource Management in Watershed Level

171767 Alternative Energy Management 3 credits

171768 Ecological and Cultural Tourism Management 3 credits

171789 Selected Topics in Sustainable Land Use 3 credits  
and Natural Resource Management

##### B. Independent Study

171798 Independent Study 6 credits

##### C. Non-credit Courses

1. Graduate School requirement: a foreign language

2. Program requirement

171791	Research Methods in Sustainable Land Use and Natural Resource Management	3 credits
171792	Seminar 1	1 credits
171793	Seminar 2	1 credits

**D. Academic Activities**

A student has to organize and present a seminar on the topic related to his/her thesis once every semester for at least 3 semesters and students have to attend seminar every semester that the course is offered.

**E. Comprehensive Examination**

Having submitted a request form to the Graduate School, approved by general advisor or major thesis advisor, a student must then complete a comprehensive examination.

**6. Study Plan**

**6.1 Plan A Type A1**

**First Year**

<b>First Semester</b>	<b>Credit</b>
171791 Research Methods in Sustainable Land Use and Natural Resource Management	-
171792 Seminar 1	-
<b>Total</b>	<b>0</b>

**Second Semester**

	<b>Credit</b>
171793 Seminar 2	-
171797 Thesis	12
<b>Total</b>	<b>12</b>

**Second Year**

<b>First Semester</b>	<b>Credit</b>
171797 Thesis	12
<b>Total</b>	<b>12</b>

**Second Semester**

171797 Thesis	12
<b>Total</b>	<b>12</b>

<b>Total credits</b>	<b>36</b>
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**6.2 Plan A Type A2**

**First Year**

<b>First Semester</b>	<b>Credit</b>
171711 Land Use and Natural Resource Management at Community Level	5
171712 Land Use and Natural Resource Management at Sub-watershed Level	4
<b>Total</b>	<b>9</b>

**Second Semester**

171713 Land Use and Natural Resource Management at watershed Level	3
171795 Interdisciplinary Field Practicum	3
171791 Research Methods in Sustainable Land Use and Natural Resource Management	-

**Total** **6**

**Second Year****First Semester**

Elective	<b>Credit</b> 3
Elective	3
171792 Seminar 1	-
171799 Thesis	6

**Total** **12**

**Second Semester**

171793 Seminar 2	-
Elective	3
171799 Thesis	6

**Total** **9**

**Total credits** **36**

**6.3 Plan B****First Year****First Semester**

171711 Land Use and Natural Resource Management at Community Level	<b>Credit</b> 5
171712 Land Use and Natural Resource Management at Sub-watershed Level	4

**Total** **9**

**Second Semester**

171713 Land Use and Natural Resource Management at Watershed Level	3
171795 Interdisciplinary Field Practicum	3
171791 Research Methods in Sustainable Land Use and Natural Resource Management	-

**Total** **6**

**Second Year****First Semester**

Elective	<b>Credit</b> 3
Elective	3
Elective	3
171792 Seminar 1	-

**Total** **9**

**Second Semester**

171793 Seminar 2	-
Elective	3
Elective	3
171798 Independent Study	6
<b>Total</b>	<b>12</b>
<b>Total credits</b>	<b>36</b>

**7. Study Time:**

Saturdays & Sunday 09:00 – 16:00

**8. Tuition Fee:**

The tuition fee is a package program, student pay for each semester 77,500 Baht and the tuition fee per student for the whole program is 465,000 Baht.

**9. Qualification**

All bachelor's Degree in Social Sciences, Agriculture Sciences, Sciences, Etc.

**10. Selection Process**

The selection process is based on an application form, together with the results of written concept paper and an interview.

**11. Contact**

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