

# Master Program in Applied Statistics

Research Fields

Sample Survey  
Operations Research, Quality Control, Simulation, IT  
Statistical Theory  
Applied Statistics  
(Biostatistics, Time Series, Regression)



For more information,  
please visit the following website.  
[www.cmustat.com](http://www.cmustat.com)



## Master of Science Program in Applied Statistics

### Plan 2 (Plan A Type A2)

<b>Degree Requirements</b>	a minimum of	37 credits
A. Coursework	a minimum of	25 credits
1. Graduate Courses	a minimum of	25 credits
1.1. Field of Specialization	a minimum of	19 credits
1.1.1. Required courses	a minimum of	16 credits
1.1.1.1. Required core courses		9 credits
208711 Statistical Theory 1		3 credits
208738 Multivariate Analysis	3 credits	
208770 Methods of Statistics	3 credits	
1.1.1.2. Required courses for each option (select only one option)		
1) Statistics		7 credits
208712 Statistical Theory 2		3 credits
208780 Linear Statistical Models		3 credits
208793 Seminar in Statistics		1 credit
2) Statistics for research		9 credits
208760 Research Methodology in Applied Statistics		3 credits
208761 Biostatistics		3 credits
208772 Computer Packages for Advanced Statistical Analysis		3 credits
1.1.2. Elective courses	a minimum of	3 credits
Select the subject which correlate with interest and benefit to the thesis, subject to the approval of advisors, as follows:		
208731 Statistical Decision Method		3 credits
208734 Sample Survey		3 credits
208737 Statistical Methods of Categorical Data		3 credits
208740 Operational Research		3 credits
208744 Linear Programming		3 credits
208745 Queueing Theory		3 credits
208746 Game Theory		3 credits
208747 Inventory Control		3 credits
208748 Network Analysis		3 credits
208749 Simulation		3 credits
208753 Demographic Statistics		3 credits
208757 Demographic Estimation		3 credits
208773 Forecasting Techniques		3 credits
208774 Non-parametric Statistical Methods		3 credits
208775 Statistical Quality Control		3 credits
208776 Experimental Designs		3 credits

208782 Factor Analysis 3 credits

208791 Selected Topics in Statistics 1 credit

and the others courses in level more than 700 which will launch in future in the field of applied statistics or students may choose from the subject list of other required courses for each option.

1.2. Other courses a maximum of 6 credits

1.2.1. Required courses – None –

1.2.2. Elective courses a maximum of 6 credits

Subject to the approval of the Graduate Program Administrative Committee in applied statistics.

**2. Advanced undergraduate courses –None–**

**B. Thesis 12 credits**

208799 Master's Thesis 12 credits

**C. Non-credit courses**

1. Graduate School's requirement – a foreign language

2. Program requirement

Under the recommendation of the Graduate Program Administrative Committee in applied statistics.

**D. Academic activities**

1. A student has to attend the department's seminar every time throughout the study period and present a thesis progression of thesis once an academic year, approved by the program committee.

2. The whole or part of a thesis must be published or accepted for publication according to the Chiang Mai University regulations on Graduate Study and Graduate School Announcement in Criteria and Guideline for Dissemination of Thesis.

### Plan 3 (Plan B)

**Degree Requirements** a minimum of 37 credits

A. Coursework a minimum of 31 credits

1. Graduate Courses a minimum of 31 credits

1.1. Field of Specialization a minimum of 25 credits

1.1.1. Required courses a minimum of 16 credits

1.1.1.1. Required core courses 9 credits

208711 Statistical Theory 1 3 credits

208738 Multivariate Analysis 3 credits

208770 Methods of Statistics 3 credits

1.1.1.2. Required courses for each option (select only one option)

1) Statistics 7 credits

208712 Statistical Theory 2 3 credits

208780 Linear Statistical Models 3 credits

208793	Seminar in Statistics	1 credit
2)	Statistics for research	9 credits
208760	Research Methodology in Applied Statistics	3 credits
208761	Biostatistics	3 credits
208772	Computer Packages for Advanced Statistical Analysis	3 credits

1.1.2. Elective courses a minimum of 9 credits

Select the subject which correlate with interest and benefit to the independent study, subject to the approval of advisors, as follows:

208731	Statistical Decision Method	3 credits
208734	Sample Survey	3 credits
208737	Statistical Methods of Categorical Data	3 credits
208740	Operational Research	3 credits
208744	Linear Programming	3 credits
208745	Queueing Theory	3 credits
208746	Game Theory	3 credits
208747	Inventory Control	3 credits
208748	Network Analysis	3 credits
208749	Simulation	3 credits
208753	Demographic Statistics	3 credits
208757	Demographic Estimation	3 credits
208773	Forecasting Techniques	3 credits
208774	Non-parametric Statistical Methods	3 credits
208775	Statistical Quality Control	3 credits
208776	Experimental Designs	3 credits
208782	Factor Analysis	3 credits
208791	Selected Topics in Statistics	1 credit

and the others courses in level more than 700 which will launch in future in the field of applied statistics or students may choose from the subject list of other required courses for each option.

1.2.	Other courses	a maximum of	6 credits
1.2.1.	Required courses		– None –
1.2.2.	Elective courses	a maximum of	6 credits

Subject to the approval of the Graduate Program Administrative Committee in applied statistics.

**2. Advanced undergraduate courses –None–**

<b>B. Thesis</b>		<b>6 credits</b>
208798	Independent Study	6 credits

**C. Non-credit courses**

1. Graduate School's requirement – a foreign language
2. Program requirement

Under the recommendation of the Graduate Program Administrative Committee in applied

statistics.

**D. Academic activities**

1. A student has to attend the department's seminar every time throughout the study period and present an independent study progression of thesis once an academic year, approved by the program committee.
2. The whole or part of an independent study must be published or accepted for publication according to the Chiang Mai University regulations on Graduate Study and Graduate School Announcement in Criteria and Guideline for Dissemination of Independent Study.

**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.