

# Master Program in Teaching Mathematics



For more information,  
please visit the following website.  
[www.math.science.cmu.ac.th](http://www.math.science.cmu.ac.th)



## Master of Science Program in Teaching Mathematics

### Type 2 (Plan A Type A2)

#### Degree Requirements

Total	a minimum of	38	credits
<b>A. Course work</b>	a minimum of	26	credits
1. Graduate Courses	a minimum of	26	credits
1.1 Field of concentration courses	a minimum of	26	credits
1.1.1 Required courses		20	credits
206726 Linear Algebra for Teachers		3	credits
206728 Number Theory and Algebra for Teachers		3	credits
206737 Mathematical Analysis for Teachers		3	credits
206753 Mathematics Instruction and Technology		3	credits
206774 Probability for Teachers		3	credits
206785 Discrete Mathematics for Teachers		3	credits
206794 Seminar in Mathematics for Teachers 1		1	credit
206795 Seminar in Mathematics for Teachers 2		1	credit
Note : In case the student takes other concurrent courses in mathematics or applied mathematics, the concurrent course can be used as a substituted class.			
1.1.2 Elective courses	a minimum of	6	credits
Select from the following course or choose any courses in Graduate level offered by the Department of Mathematics. They must be related to the thesis and approved by the Graduate student committee.			
206703 Mathematical Process with Activities and Assessments		3	credits
206704 Application of Mathematics for Teachers		3	credits
206717 Geometry for Teachers		3	credits
206736 Graph Theory and Applications		3	credits
206783 Operational Research Techniques 1		3	credits
206789 Selected Topic in Mathematics		3	credits
219761 Mathematical Modeling		3	credits
1.2 Other courses	-none-		
2. Advanced Undergraduate Courses	-none-		

## B. Thesis

206797 Master's Thesis 12 credits

## C. Non-credit Courses

1. Graduate School requirement : -a foreign language-
2. Program requirement -none-

## D. Academic Activities

At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in a national journal listed in TCI Tier 1 database or publish full paper in international conference proceedings which are approved by graduate Program administrative committee or national conference in Mathematics organized by the Mathematical Association of Thailand Under the Patronage of His Majesty the King (Annual Meeting in Mathematics). Moreover, the students must be the first author of publication either in national journal or in international conference proceedings.

Note : Course in the field of concentration are courses in graduate level in Mathematics (206...) and Applied Mathematics (219...)

## Type 3 (Plan B)

### Degree Requirements

Total a minimum of 38 credits

### Curriculum Structure

<b>A. Coursework</b>	a minimum of	32	credits
1. Graduate Courses	a minimum of	32	credits
1.1 Field of concentration courses	a minimum of	32	credits
1.1.1 Required courses		20	credits
206726 Linear Algebra for Teachers		3	credits
206728 Number Theory and Algebra for Teachers		3	credits
206737 Mathematical Analysis for Teachers		3	credits
206753 Mathematical Instruction and Technology		3	credits
206774 Probability for Teachers		3	credits
206785 Discrete Mathematics for Teachers		3	credits
206794 Seminar in Mathematics for Teachers 1		1	credit
206795 Seminar in Mathematics for Teachers 2		1	credit

Note : In case the student takes other concurrent courses in mathematics or applied mathematics, the concurrent course can be used as a substituted class.

1.1.2 Elective courses a minimum of 12 credits

Select from the following course or choose any courses in Graduate level offered by the Department of Mathematics. They must be related to the independent study and approved by the Graduate student committee.

206703	Mathematical Process with Activities and Assessments	3	credits
206704	Application of Mathematics for Teachers	3	credits
206717	Geometry for Teachers	3	credits
206736	Graph Theory and Applications	3	credits
206783	Operational Research Techniques 1	3	credits
206789	Selected Topic in Mathematics	3	credits
219761	Mathematical Modeling	3	credits

1.2 Other courses -none-

2. Advanced Undergraduate Courses -none-

## B. Thesis

206798	Independent Study	6	credits
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## C. Non-credit Courses

1. Graduate School requirement : -foreign language-
2. Program requirement -none-

## D. Academic activities

At least 1 independent study work or part of independent study work must be published in national conference in Mathematics organized by the Mathematical Association of Thailand Under the Patronage of His Majesty the King (Annual Meeting in Mathematics) or CMU Graduate School Journal or in other academic publication approved by the field of study and the graduate school.

## E. Comprehensive Examination

Students must submit the request to take the examination to the graduate school after an approval of the advisor or independent study advisors.

Note : Course in the field of concentration are courses in graduate level in Mathematics (206...) and Applied Mathematics (219...)