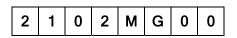
## Admission Number



Master of Science Programme in Applied Mathematics (International Programme)

หลักสูตร วิทยาศาสตรมหาบัณฑิต สาขาวิชา คณิตศาสตร์ประยุกต์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science Department of Mathematics

คณะวิทยาศาสตร์ ภาควิชา คณิตศาสตร์

Expected number of students to be accepted all year round: 5 Students

## Admission Requirements

#### A candidate must:

- 1. have a Bachelor of Science, Bachelor of Engineering, or an equivalent degree, or other degrees with at least 15 mathematics subjects;
- 2. have a grade point average of at least 3.00;
- 3. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies. For those who already hold a valid English score, please submit its certificate along with all application documents.

### **Curriculum Structure**

	Credit
Prerequisite Courses	-
Required Courses	12
Elective Courses	12
Thesis	12

Duran malaita Common	Credit		
Prerequisite Courses			
SCMA 501 Linear Algebra	3(3-0-6)		
SCMA 502 Advanced Calculus	3(3-0-6)		
SCMA 503 Differential Equations	3(3-0-6)		
SCMA 504 Probability and Statistics	3(3-0-6)		
SCMA 505 Computer Programming I	3(3-0-6)		
SCMA 506 Complex Variables	3(3-0-6)		
SCMA 507 Vector Analysis	3(3-0-6)		
SCMA 508 Calculus of Several Variables	3(3-0-6)		
SCMA 509 Principle of Partial Differential Equations	3(3-0-6)		
SCMA 510 General Topology	3(3-0-6)		
Required Courses			
SCMA 601 Applied Analysis I	3(3-0-6)		
SCMA 611 Analysis I	3(3-0-6)		
SCMA 613 Numerical Analysis I	3(3-0-6)		
SCMA 694 Applied Mathematics Seminar I	1(1-0-2)		

SCMA 695 Applied Mathematics Seminar III         1(1-0-2)           Elective Course         1(1-0-2)           SCID 518 Generic Skills in Science Research         1(1-0-2)           SCMA 602 Applied Analysis II         3(3-0-6)           SCMA 603 Theory of Ordinary Differential Equations         3(3-0-6)           SCMA 604 Algebraic Topology I         3(3-0-6)           SCMA 605 Algebraic Topology II         3(3-0-6)           SCMA 607 Functional Analysis         3(3-0-6)           SCMA 607 Functional Analysis         3(3-0-6)           SCMA 607 Modern Algebra         3(3-0-6)           SCMA 607 Functional Analysis         3(3-0-6)           SCMA 607 Functional Analysis         3(3-0-6)           SCMA 607 Functional Analysis         3(3-0-6)           SCMA 607 Compater Methods For Statistical Applications         3(3-0-6)           SCMA 617 Computer Methods For Statistical Applications         3(2-0-6)           SCMA 619 System Science         3(3-0-6)           SCMA 620 Complex Analysis         3(3-0-6)           SCMA 627 Differential Equations         3(3-0-6)           SCMA 628 Partial Differential Equations         3(3-0-6)           SCMA 629 Compater Methods         3(3-0-6)           SCMA 629 Current Topics in Computational Mathematics         3(3-0-6) <td< th=""><th>CCMA</th><th>COE Applied Methamatics Comings II</th><th>1/1 0 2)</th></td<>	CCMA	COE Applied Methamatics Comings II	1/1 0 2)
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SCMA       628 Finite Element Methods       3(3-0-6)         SCMA       629 Current Topics in Computational Mathematics       3(3-0-6)         SCMA       630 Operations Research       3(3-0-6)         SCMA       631 Decision Analysis       3(3-0-6)         SCMA       632 Game Theory       3(3-0-6)         SCMA       633 Stochastic Processes       3(3-0-6)         SCMA       634 Queuing Theory       3(3-0-6)         SCMA       635 Inventory Theory       3(3-0-6)         SCMA       636 Simulation Modeling       3(3-0-6)         SCMA       637 Combinatorial Mathematics       3(3-0-6)         SCMA       638 Graph Theory       3(3-0-6)         SCMA       639 Current Topics in Statistical Mathematics       3(3-0-6)         SCMA       640 Probability Theory       3(3-0-6)         SCMA       641 Multivariate Analysis       3(3-0-6)         SCMA       642 Advanced Experimental Design       3(3-0-6)         SCMA       643 Time Series Analysis       3(3-0-6)         SCMA       645 Generalized Liner Models       3(3-0-6)         SCMA       646 Numerical Methods I       3(3-0-6)         SCMA       647 Numerical Methods II       3(3-0-6)         SCMA       648 Advan			` '
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SCMA       632 Game Theory       3(3-0-6)         SCMA       633 Stochastic Processes       3(3-0-6)         SCMA       634 Queuing Theory       3(3-0-6)         SCMA       635 Inventory Theory       3(3-0-6)         SCMA       636 Simulation Modeling       3(3-0-6)         SCMA       637 Combinatorial Mathematics       3(3-0-6)         SCMA       638 Graph Theory       3(3-0-6)         SCMA       639 Current Topics in Statistical Mathematics       3(3-0-6)         SCMA       640 Probability Theory       3(3-0-6)         SCMA       641 Multivariate Analysis       3(3-0-6)         SCMA       642 Advanced Experimental Design       3(3-0-6)         SCMA       643 Time Series Analysis       3(3-0-6)         SCMA       644 Linear Models       3(3-0-6)         SCMA       645 Generalized Liner Models       3(3-0-6)         SCMA       646 Numerical Methods I       3(3-0-6)         SCMA       647 Numerical Methods II       3(3-0-6)         SCMA       648 Advanced Numerical Analysis       3(3-0-6)		·	` ,
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SCMA 651 Classical Med	hanics	3(3-0-6)
SCMA 652 Electromagne	tic Theory	3(3-0-6)
SCMA 653 Quantum Mec	hanics	3(3-0-6)
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SCMA 660 Theoretical Ph	nysics	3(3-0-6)
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SCMA 670 Advanced Diffe	erential Equations	3(3-0-6)
SCMA 671 Mathematical	Physics	3(3-0-6)
SCMA 673 Dynamical Sys	stems	3(3-0-6)
SCMA 674 Mathematical	Models in The Life Sciences	3(3-0-6)
SCMA 675 Statistical Med	chanics	3(3-0-6)
SCMA 676 Mathematics f	or Computing	3(3-0-6)
SCMA 677 Data Mining		3(3-0-6)
SCMA 678 Mathematics f	for (Natural) Language Processing I	3(3-0-6)
SCMA 679 Mathematics f	for (Natural) Language Processing II	3(3-0-6)
SCMA 680 Mathematical	Methods for Artificial Intelligence	3(3-0-6)
SCMA 681 Special Topics	s in Applied Mathematics I	3(3-0-6)
SCMA 682 Special Topics	s in Applied Mathematics II	3(3-0-6)
SCMA 683 Special Topics	s in Applied Mathematics III	3(3-0-6)
SCMA 684 Dynamic Mete	eorology I	3(3-0-6)
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SCMA 687 Advanced Top	pics in Mathematical Methods for Artificial Intelligence	3(3-0-6)
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SCMA 689 Bayesian Stati	istics	3(3-0-6)
Thesis		
SCMA 698 Thesis		12(0-36-0)
* These may change in cas	ses where there are suggestions for the improvement of	the curriculum

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- A letter certifying that an applicant is currently in the final year prior to graduation 2 copies (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
   2 copies
- A grade report with course names and grades received from the first to the current 2 copies semester prior to graduation
- A copy of identification card 2 copies
- A copy of house registration certification
   2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\_th.php
- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in <u>pdf format</u> (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

## Job option after graduation

- Experts in mathematics
- Programmers, Statisticians
- Research assistants

## Further information may be obtained from the Director of Graduate Studies, Applied Mathematics:

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Tel.: 0 2201 5438 Fax.: 0 2201 5343

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Mr. Natthawooth Siangdee (E-mail: natthawooth.sin@mahidol.ac.th)

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Tel.: 0 2201 5342 Fax.: 0 2201 5343

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