

M.S. CS

MASTER OF SCIENCE IN COMPUTER SCIENCE

2-YEAR PROGRAM
THESIS AND NON - THESIS OPTIONS

The Master of Science Program in Computer Science aspires to produce graduates who are capable of working efficiently in technology oriented environment. In order to meet this philosophy, the curriculum emphasizes:

- True understanding of the principles of major topics in Computer Science.
- Analytical approaches in solving problems and decision making based on technology and research methodology.
- Innovative skills to create research work that is worthy in both academic and computer applications.

1,000 THB

QUALIFICATION FOR ADMISSION

The following admission requirements (recommended) for any prospective students to enter the program.

- Bachelor's degree from an accredited institution.
 The applicants must graduate from the following academic fields: Computer Science, Information Technology, Telecommunications Science, Engineering or related tield.
- 2. GPA of at least 2.5 out of 4.0 or equivalent
- 3. English Proficiency Test and Interview Entrance Examination

ENTRANCE REQUIREMENTS

- 1. A completed application form
- 2. Official transcript of the previous university attended (1 copy)
- 3. Bachelor's degree certificate (1 copy)
- Citizen identification card and house registration
 (1 copy) for Thai applicants
- 5. Passport (1 copy) for Non-Thai applicants
- 6. Three (1x1.5 inches) photographs (formal attire, not in graduation gown)
- 7. Letter of recommendation from former instructors or employers at the time of the application

Note: All documents must be endorsed with signature and submitted in person within the last day application period. Otherwise, the application will not be considered and the applicant will not be allowed for the Admission interview.

ADMISSION FEE

EXEMPTION

The AU English Proficiency Test can be exempted depending on which of the following conditions you satisfy.

- -a TOEFL score of (iBT) 90 or an IELTS (Academic) score of at least 6.5 (Validation: Two years)
- a Bachelor's degree or a higher degree from native English speaking countries (e.g. USA, Canada, UK, New Zealand and Australia)

VENUE & CLASS HOURS

» Hua Mak Campus, Ramkhamhaeng 24 Road
Mon. - Fri.
6.30 P.M. - 9.30 P.M.
Sat. - Sun.
9.00 A.M. - 5.00 P.M.

DURATION: 2 years

GRADUATION REQUIREMENTSPlan A: Coursework and Thesis

- Have completed all the courses of the curriculum.
- Have obtained a cumulative grade point average of at least 3.00.
- · Have passed the thesis defense.
- Have a publication or obtain an acceptance of a publication related to the content of the thesis in a journal or an international conference proceeding and which is approved by the Academic Committee of the department.

- Have obtained library and financial clearance from the University.
- Have demonstrated good behavior and discipline.
- Have passed Research Planning and Management Seminar

Plan B: Coursework and Independent Study

- Have completed all the courses of the curriculum.
- Have obtained a cumulative grade point average of at least 3.00.
- Have passed the comprehensive examination.
- Have passed the project presentation.
- Have obtained library and financial clearance from the University.
- Have demonstrated good behavior and discipline.
- Have passed Research Planning and Management Seminar.

Vincent Mary School of Science and Technology

4th Fl., A building, Huamak campus, Ramkhamhaeng 24 Rd., Bangkok, Thailand

Tel: 02-300-4543 ext.1340

Admission Schedule

Admission Schedule	Semester 1/2021 (June - October 2021)	Semester 2/2021 (November 2021 - February 2022)
Application Deadline	Wed. 19 May 2021	Wed. 20 October 2021
AU English Proficiency Test and Interview	Sat. 22 May 2021	Sat. 23 October 2021
Entrance Results	Tue. 25 May 2021	Tue. 26 October 2021
Registration Period	1 - 5 June 2021	1 - 5 November 2021
Instruction Begins	Mon. 7 June 2021	Mon. 8 November 2021

STUDY PLAN

Thesis Option (Plan A)		Coursework and Independent Study	
Preparatory Courses	Non-credit	(Plan B)	
Required Courses	9 credits	Preparatory Courses	Non-credit
Elective Courses	15 credits	Required Courses	9 credits
Thesis	12 credits	Elective Courses	24 credits
		Master Project	3 credits
Total	36 credits	Comprehensive	

36 credits | Comprehensive Examination

Non-credit Total 36 credits YFAR 1

Semester 1

SC 6201 **Advanced Computing Systems** SC 6202 Computability, Complexity and Algorithms SC 6212 Programming Languages and Compiler

Semester 2

Plan A Three Elective Courses

YFAR 2 Semester 1

Plan A Two Elective Courses + SC 7000 Thesis

Plan B Three Elective Courses

Semester 2

Plan A SC 7000 Thesis

Plan B Two Elective Courses + SC6900 Master Project

+ SC7777 Comprehensive Examination

CURRICULUM

Preparatory Courses

ES 5001 English for Graduate Study

SC 5211 Computer Programming & Data Structure

SC5212 Computing Systems

Required Courses

Advanced Computing Systems SC 6201 SC 6202 Computability, Complexity and Algorithms

SC 6212 Programming Languages and Compiler

ELECTIVE COURSES

SC 6319 Computer Network and Internet Security SC 6324 Principles of Software Engineering

SC 6360 Artificial Intelligence SC 6362

Data Mining SC 6365 Natural Language Understanding and Processing

SC 6399 Graduate Seminar in Computer Science

SC 6601 Cloud Computing and Big Data SC 6602 Data Analysis and Visualization

SC 6603 Data Warehousing and Business Intelligences

SC 6604 Database Management Systems

SC 6610 Pattern Recognition and Machine Learning

SC 6611 Neural Networks and Deep Learning Blockchain Technology and Cryptocurrency

SC 6612 SC 6613 Recommender Systems

SC 6620 Computer Graphics

SC 6621 Computer Vision

SC 6622 Augmented and Virtual Environments

SC 6630 User Interface and User Experience (UI/UX)

SC 6631 Web Technology, Applications and Security

SC 6632 Mobile Computing

SC 6640 Principles of the Theory of Computation

SC 6633 Ubiquitous Computing and Internet of Things (IoT)

SC 6400-99 Selected Topics in Computer Science

SC 6409 Selected Topics in Quantum Computing SC 6500-99 Directed Individual Study in Computer Science SC 8311 Parallel Algorithms SC 8322

Image Processing
Computational Models of Decision Making SC 8323

SC 8350 Computer and Data Security SC 8354

Advanced Computer Communications SC 8380-599 Advanced Topics in Computer Science

Independent study

Master Project SC6900

SC7777 Comprehensive Examination

Thesis

SC7000 Thesis

ESTIMATED FEES

Installments	Thai Students	Non Thai	Non Thai Students	
	(THB)	(THB)	(US\$)	
1 st Installments	133,100	150,600	5,020	
2 nd Installments	80,100	80,100	2,670	
3 rd Installments	91,100	96,100	3,203	
4 th Installments	80,100	80,100	2,670	
Total	384,400	406,900	13,563	

Note:

- 1. The total fee above doesn't cover the followings:

 - SC7777 Comprehensive Examination (if apply)
- 2. The fees are subject to change at the university's discretion without prior notice.
- 3. Currency exchange rate: US \$1 = THB 30

APPLY AT

Hua Mak Campus

Admissions Center "P" Building, 1st floor, Ramkhamhaeng 24 Road, Bangkok 10240 Thailand

Office hours:

Monday - Friday 08:30 A.M. - 05:00 P.M. Saturday 08:00 A.M. - 04:30 P.M. Sunday 08:00 A.M. - 02:00 P.M.

Suvarnabhumi Campus

Admissions Center SR101,

88 Moo 8 Bang Na-Trad Km.26, Bangsaothong, Samuthprakarn, Thailand 10540

Office hours:

Monday - Friday 08:30 A.M. to 05:00 P.M.

IMPORTANT

The provisional information statements set forth in this catalog should not be construed as the basis of any contract between a student and this institution. As such Assumption University reserves the right to change any provision listed in this catalog, including, but not limited to academic requirements for graduation. Every effort through the Office of Graduate Studies will be made to keep students advised of any such changes.

The University Registrar

UNIVERSITY ADMISSIONS CENTER (UNIAD)

Last updated: April 2021









