



M.S. CS 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.

QUALIFICATION FOR ADMISSION

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

1. 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 field.
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)
4. 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 (2 letters)

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.

Applicants who graduated from overseas Universities will be required to provide at the time of applying and not later, certified, attested, or notarized by competent notaries, all academic documents with the seal or stamp by the Ministry of Foreign Affairs, Ministry of Education or related department.

ADMISSION FEE 1,000 THB (Non-refundable)

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 REQUIREMENTS

Plan 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

3rd Fl., A building, Huamak campus,
Ramkhamhaeng 24 Rd., Bangkok,
Thailand
Tel: 02-300-4543 ext.1310

	Semester 1/2023 (June - October 2023)	Semester 2/2023 (November - March 2024)
Application Deadline	Wed. 24 May 2023	Tue. 17 October 2023
AU English Proficiency Test and Interview	Online	Online
Entrance Results	Wed. 31 May 2023	Tue. 24 October 2023
Registration Period	1-4 June 2023	1-5 November 2023
Instruction Begins	Mon. 5 June 2023	Mon. 6 November 2023

STUDY PLAN

Thesis Option (Plan A)

Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	15 credits
Thesis	12 credits

Total 36 credits

Coursework and Independent Study (Plan B)

Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	24 credits
Master Project	3 credits

Total 36 credits

SC 8311	Parallel Algorithms
SC 8322	Image Processing
SC 8323	Computational Models of Decision Making
SC 8350	Computer and Data Security
SC 8354	Advanced Computer Communications
SC 8380-599	Advanced Topics in Computer Science

Independent study

SC6900	Master Project
	Comprehensive Examination

Thesis

SC7000	Thesis
--------	--------

YEAR 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
--------	------------------------

YEAR 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 + Comprehensive Examination

CURRICULUM

Preparatory Courses

AWC 2000	Upper Intermediate Academic Writing Course
SC 5211	Computer Programming & Data Structure
SC5212	Computing Systems

Required Courses

SC 6201	Advanced Computing Systems
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
SC 6612	Blockchain Technology and Cryptocurrency
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

ESTIMATED FEES

Installments	Thai Students (THB)	Non Thai Students (THB)	(US\$)
1 st Installments	137,500	137,500	4,583
2 nd Installments	137,500	137,500	4,583
3 rd Installments	112,500	137,500	4,583
4 th Installments	112,500	137,500	4,583
Total	500,000	550,000	18,333

Note:

- The total fee above doesn't cover the followings:
 - Admission fee
 - Text books
 - Comprehensive Examination (if apply)
- The fees are subject to change at the university's discretion without prior notice.
- Currency exchange rate: US \$1 = THB 30

APPLICATIONS

Hua Mak Campus

Admissions Center "A" 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, Bangsangthong,
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

Last updated: November 2021

UNIVERSITY ADMISSIONS CENTER

HUA MAK CAMPUS
Tel. +66 (2) 300 4543-62 Ext.1244
Tel. +66 (2) 719 1929

- +66 (81) 815 1237
- +66 (63) 593 5885
- gradadmission@au.edu



Line



Facebook



Instagram



www.grad.au.edu