ENGINEERING
CHIANG MAI UNIVERSITY

FACULTY OF ENGINEERING

CHIANG MAI UNIVERSITY

Bachelor of Engineering in
Information Systems and Cybersecurity
(International Program)

OUR VISION:

Knowledge of tomorrow, ready for your learning today.

OUR MISSION:

Computing is a dynamic area which requires continuously renewing knowledge and skills. With us, students can improve their skills, attain knowledge of tomorrow and be ready for working in this rapidly changing industry. Our academic and public services are developed from the expertise and knowledge from our world-class research.

OUR RESEARCH UNITS:

- Applied Computer Engineering
- Bioinformatics
- Computational Intelligence
- Computer Graphics
- Computer Vision
- Database and Networking
- Data Engineering
- Software Engineering
- Theoretical and Quantum Computation
- Biomedical Image Processing and Analysis

CONTACT US: [+66) 53 942051 [+66) 53 942052 cm-ies@eng.cmu.ac.th https://cmies.eng.cmu.ac.th/ https://www.facebook.com/eng.inter.cmu/

BACHELOR OF ENGINEERING IN INFORMATION SYSTEMS AND CYBERSECURITY

(International Program)

FACULTY OF ENGINEERING
CHIANG MAI UNIVERSITY

STUDY PLAN

Year 1

First Semester Total 19 credits

General Education: Required Courses: Language Literacy 3
- e-Pro score is below B1 level or equivalent

001101 Fundamental English 1
- e-Pro score is B1 level or higher or equivalent

001225 English for Science and Technology
140104 Citizenship 3
206161 Calculus for Engineering 1 3
267101 Introduction to ISCE 3
261101 Computer Programming 3
259191 Principle of Being Professional 1
261216 Discrete Mathematics for Computer Engineers 3

Second Semester Total 18 credits

General Education: Required Courses: Language Literacy 3
- e-Pro score is below B1 level or equivalent

001102 Fundamental English 2
- e-Pro score is B1 level or higher or equivalent

Choose from the specified English courses
206162 Calculus for Engineering 2 3
255201 Quantitative Analysis in Industrial Engineering 3
261205 Data Structures and Algorithms 3
267102 Basic Engineering for ISCE 3
269130 Fundamentals of Data and Computer Comunucations for ISNE 3

Year 2

First Semester Total 19 credits

General Education: Required Courses: Language Literacy 3
- e-Pro score is below B1 level or equivalent

001225 English for Science and Technology
- e-Pro score is B1 level or higher or equivalent

Choose from the specified English courses
261335 Computer Networks 3
261336 Computer Networks Laboratory 1
269202 Algorithms for ISNE 3
269210 Computer Architecture for ISNE 3
267221 Front-end Application Development 3
267251 Network and Information Security 3

Second Semester Total 19 credits

General Education: Required Courses: Digital Literacy 3
General Education: Required Courses: Entrepreneurial Skills 3
261341 Database Systems 4
261305 Operating Systems 3
267222 Back-end Application Development 3
269430 Wireless And Broadband Computer Networks 3

Year 3

First Semester Total 18 credits

General Education: Required Courses:
Creativity and Innovation 3
204342 Cyber Defense Against the Dark Arts 3
261361 Software Engineering 3
261434 Computer Networks Design and Management 3
267341 Cloud Technology 3
267346 Data Managemnt and Big Data 3

Year 3 – Summer Semester (Normal Plan)

267401 Information System and Cybersecurity Training 3

Second Semester Total 18 credits

General Education: Required Courses:
Digital Literacy or Global Citizen or Artificial Intelligence 3
267352 Operating Systems Security 3
267360 Defensive Security 3
267371 Penetrating Testing 3
267345 Artificial Intelligence and Machine Learning for ISCE 3
xxxxxx Major Electives 3

Year 4

First Semester Total 13 credits

267480 Cybersecurity Standards and Frameworks 3
267481 Digital Forensics and Incident Response 3
267491 Project Survey 1
259192 Skills for Professionalism and Entrepreneurship 1
xxxxxx Innovative Co-creator 3

Second Semester Total 16 credits

267492 Project 3
Field of Specialization; Major Elective Courses 6
xxxxxx Free Elective 3

Cooperative Plan

Year 3 (Cooperative Plan)

First Semester Total 18 credits

General Education: Required Courses:
Creativity and Innovation 3
176104 Rights and Duties of Citizen in Digital Age 3
204342 Cyber Defense Against the Dark Arts 3
267351 Ethical Hacking 3
267341 Cloud Technology 3
267346 Data Management and Big Data 3

Second Semester Total 19 credits

General Education: Required Courses:
Digital Literacy or Global Citizen or Artificial Intelligence 3
267352 Operating Systems Security 3
267360 Defensive Security 3
267371 Penetrating Testing 3
267345 Artificial Intelligence and Machine Learning for ISCE 3
267491 Project Survey 1
xxxxxx Major Elective Courses 3

Year 4 (Cooperative Plan)

First Semester Total 19 credits

259192 Skills for Professional and Entrepreneurship 1
267480 Cybersecurity Standards and Frameworks 3
267481 Digital Forensics and Incident Response 3
267492 Project 3
Field of Specialization: Major Elective Courses 3
xxxxxx Free Elective 6

Second Semester Total 6 credits

267495 Cooperative Education 6

ABOUT THE PROGRAM

The Bachelor of Engineering in Information Systems and Cybersecurity is a comprehensive 4-year international program offered by the Faculty of Engineering at Chiang Mai University, requiring a minimum of 137 credits for graduation. This cutting-edge program uniquely combines interdisciplinary knowledge from engineering, computer science, and law to address the growing demands of Thailand's digital economy and national cybersecurity policies. Students can specialize in either Information Systems Engineering or Cybersecurity Engineering, gaining expertise in critical areas including network infrastructure, software development, data analytics, artificial intelligence applications, and advanced cybersecurity technologies.

Taught entirely in English, the program emphasizes a balance between theoretical foundations and practical, hands-on experience. Students benefit from strong industry partnerships with leading technology companies and government agencies, including the National Cyber Security Agency and global technology leaders. The curriculum incorporates mandatory cooperative education and internship components, ensuring graduates are workplace-ready with real-world problem-solving skills. With experienced faculty members who are active in research and maintain strong connections with both domestic and international networks, students receive guidance that reflects current industry trends and emerging technologies in information systems and cybersecurity.

CAREER OPPORTUNIITIES

Graduates of this program are highly sought after for diverse career paths in the rapidly expanding digital technology sector. Primary career opportunities include positions as Network Engineers managing organizational IT infrastructure, Software Engineers developing applications and systems, Data Systems Engineers handling big data analytics, and Information Systems Administrators overseeing secure communications and database systems. The cybersecurity specialization opens doors to specialized roles such as Cybersecurity Systems Engineers who design and implement security architectures, Penetration Testers who identify system vulnerabilities, Cybersecurity Analysts who assess and improve organizational security postures, and Security Auditors who ensure compliance with industry standards and regulations

Beyond direct technical roles, graduates are well-positioned for management positions such as IT and Computer Managers who oversee technology strategy aligned with business objectives, and Site Reliability Engineers who ensure system performance and availability. The program also prepares students for secondary career paths, including academia and research in universities or research centers, as well as entrepreneurship in telecommunications, networking, software development, and cybersecurity consulting. With the program's English-medium instruction and international focus, graduates have competitive advantages in both domestic and international job markets, including opportunities with multinational corporations and the ability to work across borders in the global technology industry

TUITION FEES

Thai nationality:
80,000 baht per semester
Other nationalities:
100,000 baht per semester

FOR MORE DETAIL

Chiang Mai International Engineering School,
The Faculty of Engineering, Chiang Mai University
239 Huay Kaew Road, Suthep, Muang,
Chiang Mai, Thailand 50200
Tel: (+66) 53 942051 (+66) 53 942052
E-mail: cm-ies@eng.cmu.ac.th
Website: https://cmies.eng.cmu.ac.th
Facebook: www.facebook.com/eng.inter.cmu

More information (about admission)

Registration Office Chiang Mai University
239 Huaykaew Rd., Suthep, Muang, Chiangmai,
Thailand, 50200
+66 5394 8918
ipas_admission@reg.cmu.ac.th

https://admission.reg.cmu.ac.th/ipas/