

Bachelor of Science Program in **Data Science**

Joint Program under Department of Mathematics, Department of Statistics, and Department of Computer Science Faculty of Science, Chiang Mai University

Drive through the future

Data structure and database systems

Data manipulation

Machine learning

Big Data

Studying @SCI

Expanding your mind

T = F + F = 9

Artificial intelligence









www.ds.science.cmu.ac.th



Data Science CMU

Faculty of Science, Chiang Mai University http://www.science.cmu.ac.th





Today, we are living in the digital world in which technological advances allow us to generate large amount of data in various forms, such as sensors, digital images, streaming videos, satellite and medical imagery, and many more. To fully understand and utilize them, extractions of meaningful information from big data are needed, causing a sudden rise in demand for data scientists in every sector: industry, health care, government, etc.

In 2019, the Faculty of Science offers an undergraduate program in Data Science, organized jointly by the departments of Mathematics, Statistics, and Computer Science.

Study Program

Our data science program is not only designed to provide the basic knowledge of Mathematics, Statistics, and Computer Science but also prepares students to integrate mathematics, statistics and computer science and apply these areas of expertise in real world problems through internships in data science-related fields in several sectors. The course structure balances theory and practical application throughout the courses including:

- Mathematics
- Computer science and programming
- Probability and Statistical learning
- Machine learning
- Artificial intelligence
- Data manipulation

- Data structures and database systems
- Seminar in data science
- Research projects in data science
- Internship in data science
- Ethical issues around the use and processing of data
- Many others...

Study Plan

First Year

Semester 1 Fundamental English 1

Calculus 1 Probability and Statistics Fundamental Concept of Data Science Science and Mathematics Courses **Humanities and Social Sciences Courses**

Semester 2

Fundamental English 2 Calculus 2 Programming for Data Science Science and Mathematics Courses **Humanities and Social Sciences Courses**

Career Path



A data analyst A data engineer A business analyst A data officer An analytics consultant A strategic planner

A data scientist

More...

Second Year

Semester 1

Critical Reading and Effective Writing Discrete Mathematics Statistical Methods for Data Science Data Manipulation for Data Science Minor (if any) Free Electives

Semester 2

English in Science and Technology Context Data Structures Applied Linear Algebra Statistical learning for Data Science 1 Major Electives Learning Through Activities

Information

Tuition & Fees

16.000 THB/Semester (128,000 THB Total)

Application Requirement

The students must receive Matthayom 6 certificate in science-mathematics program.

Admission

The students can apply through TCAS system (round 1 - 4).

More Information

Data Science Research Center Faculty of Science Chiang Mai University Email: ds.sci.cmu@gmail.com Tel: +66-5394-1986

Third Year

Semester 1

Data Engineering Statistical Learning for Data Science 2 Major Electives Minor (if any)

Fourth Year

Semester 1

Cooperative Education (Internship)

Semester 2

Learning Through Activities **Ethics for Computer Professionals** Machine Learning Seminar in Data Science Major Electives Minor (if any)

Semester 2

Research in Data Sciences Major Electives Minor (if any) Free Electives