

Major Course Requirements for Robotics Program (M.S. Degree)

Thesis M.S Degree Program

- **Credit Requirement:** 33 credits or more in total

- **General Required Courses:** 3 credits or more
 - Courses designated by the Department:
 - At least 1 course among the following: CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics (Substitutive course: EE528 Engineering Random Processes), CC512 Introduction to Materials and Engineering, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies
 - CC010 Special Lecture on Leadership (No credit. Mandatory course for students enrolled from 2002, except general scholarship students or international students)
 - CC020 Ethics and Safety I (1AU) is mandatory

- **Elective Courses:** 18 credits or more
 - At least nine credits must included from the following subjects, and earn a total of 27 credits or more from elective subjects designated by the Robotics Program (※Refer to the Table of Curriculum)

과목 번호	과목명
RE510	Intelligent Robot Design Lab
EE511	Computer Architecture
EE534	Pattern Recognition
EE581	Linear Systems
EE585	Mobile Robotics and Autonomomous Navigation
EE682	Intelligent Control Theory
EE683	Robot Control
EE735	Computer Vision
CS477	Introduction to Intelligent Robotics
CS510	Computer Architecture
CS550	Software Engineering
CS554	Design for Software and System
CS570	Artificial Intelligence and Machine Learning
CS572	Intelligent Robotics
CS576	Computer Vision
CS672	Reinforcement Learning
ME453	Introduction to Robotics Engineering
ME459	Introduction for Visual Intelligence
ME553	Robot Dynamics

ME652	Mobile Robotics
ME655	Robotics Engineering
CE583	Advanced Dynamic and Nonlinear Control of Civil Robots
AI502	Deep Learning
AI611	Deep Reinforcement Learning

※However, recognition is possible even if you take a substitute or shared course for the listed course.

- Up to six credits of unit 500 or higher may be taken among courses other than those designated by this Program.

Research Courses: 12 credits or more

- At least 12 credits of research courses, including the M.S. Seminar course (1 credit), are required.
- May be substituted by the research courses in the department/major of student's advisor. (If the advisor changes his or her department/major, the research courses taken in the previous department/major are also accepted)

Transitional Measures

- Subject Requirements herein apply to all enrolled students since Spring 2024