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 3 courses are required among the following: EE581 Linear Systems, ME553 Robot Dynamics, ME655 Robotics Engineering, **EE682 Intelligent Control Theory**, EE683 Robot Control, CS510 Computer Architecture, **CS570 Artificial Intelligence and Machine Learning**, RE510 Intelligent Robot Design Lab

○ 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 course, including the M.S. Seminar course (1 credit), is required.

- May be substituted by the research course in the student's department/major.
- M.S. Seminar course of the department/major of the student's supervisor is mandatory.

☐ **Transitional Measures**

○ Subject Requirements herein are applicable to all enrolled students.

Major Course Requirements for Robotics Program

(Ph.D. Degree)

▣ **Credit Requirement:** 60 credits or more in total

▣ **General Required Courses:** 3 credits or more

- Identical to the Thesis M.S. Degree Program requirements. No additional courses are required if they were already taken during the student's M.S. Degree Program

▣ **Elective Courses:** 27 credits or more

○ At least 3 courses are required among the following: EE581 Linear Systems, ME553 Robot Dynamics, ME655 Robotics Engineering, **EE682 Intelligent Control Theory**, EE683 Robot Control, CS510 Computer Architecture, **CS570 Artificial Intelligence and Machine Learning**, RE510 Intelligent Robot Design Lab

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

▣ **Research Courses:** 30 credits or more

○ At least 30 credits of research course, including the Ph.D. Seminar course (1 credit), is required.

- May be substituted by the research course in the student's department/major.
- Ph.D. Seminar course of the department/major of the student's supervisor is mandatory.

▣ **Miscellaneous:** Credits earned during M.S. Program are accumulated in the Ph.D. Program (not applicable to research credits).

☐ **Transitional Measures**

○ Subject Requirements herein are applicable to all enrolled students.