

Course Requirements

□ Graduate Requirement

M.S. Course

Core Course	Major Course		Research	Total
	Required	Selective		
3	9	18 or more	9 or more	39

□ Master's Programs

1) Master's Program

- ▶ Required Credits for Graduation: at least 39 credits.
- ▶ Common Courses: 3 credits
 - Engineering Economy and Cost Analysis (for students with BSEE) or Introduction to Instrumentation (for students with BSME)
 - Special Lecture on Leadership (no credit, applicable from 2002 freshmen excluding general scholarship students and foreign students)
- ▶ Required Major Courses: 9 credits
 - Automobile Mechatronics, Analog Electronic Engineering, and Digital Electronic Engineering (for students with BSME)
 - Automobile Mechatronics, Structural Analysis in Statics and Dynamics, and Thermodynamics and Fluid Flow (for students with BSEE)
- ▶ Selective Major Courses: at least 18 credits
 - At least 18 credits among the GSAT courses
- ▶ Research: at least 9 credits
 - M.S. Thesis (at least 6 credits) or Projects I and II (at least 6 credits)
 - Automobile Technology Seminar (2)
 - Industry Training (1)

※ The credit of BSEE or BSME is under the discretion of the GSAT chair.

2) Master's Program with Mechanical Engineering dual major

- Must be approved by the entrance committee of Mechanical Engineering Department, and satisfy the requirement of MSME program.
- ▶ Required Credits for Graduation: at least 36 credits.
- ▶ Common Courses: 3 credits
 - Special Lecture on Leadership (no credit, applicable from 2002 freshmen excluding general scholarship students and foreign students)
- ▶ Required Major Courses: 3 credits
- ▶ Selective Major Courses: at least 18 credits
 - At least 6 credits above 500 units from EE
 - At least 12 credits above 400 units (among EE courses approved for Master program) or 500 units (other departments)
- ▶ Research: at least 6 credits
 - Must include MS thesis (4), Seminar (1), and Technical Writing

3) Master's Program with Electrical Engineering dual major

- Must be approved by the entrance committee of Electrical Engineering Department, and satisfy the requirement of MSEE program.
- ▶ Required Credits for Graduation: at least 36 credits.

▶ Common Courses:3 credits

- 1 course among Scientific Writing in English, Introduction to Computer Application, Probability and Statistics (Substitutive subject: EE521), Introduction to Materials Science, Engineering Economy and Cost Analysis, Entrepreneurship and Business Strategies.
(Probability and Statistics can be replaced with Random Process)
- Special Lecture on Leadership (no credit, applicable from 2002 freshmen excluding general scholarship students and foreign students)

▶ Required Major Courses: 0 credits

▶ Selective Major Courses: at least 21 credits (at least 15 credits from ME courses)

▶ Research: at least 12 credits (including seminar (2), exempt for researcher students)

4) Transient Measures

- The condition is applicable from 2006 freshmen
- For 2006 ATMP freshmen transferred to GSAT, the courses taken in 2005 are approved as follows:

Common Course:

ATM602 Management Statistical Analysis

Selective major Courses:

ATM551 New Product Development and Project Management

ATM680 Automobile Technology Special Subject

MGT510 Leadership and Organization Management

MGT514 Principles of Economics

MGT530 Production Strategy and Supply Chain Management