

Major Course Completion Requirements for Master of Entrepreneurship and Innovation

(Coursework Master's Degree Program)

Coursework Master's Degree Program

Please check the common graduation requirements.

■ **Credit Requirement for Graduation:** Required to complete a total of more than 33 credits (at least 2.5/4.3 GPA)

Degree program	Mandatory General	course credits			Research	Total credits
		Mandatory	Elective	Major		
Professional master's	3 credits and 1AU	4 credits	at least 8 credits	at least 12 credits	6 credits	at least 33 credits

■ **Mandatory General Courses:** 3 credits and 1AU

(including non-credit course)

○ CC533 Entrepreneurial Leadership(3 credits)

○ CC020 Ethics and Safety I (1AU)

*Recommended for the first semester.

○ CC010 Special Lecture on Leadership(non-credit)

■ **Mandatory Major Courses:** 4 credits

○ KEI501 Advanced Multidisciplinary Capstone Design

■ **Elective Courses:** At least 8 credits

○ Complete courses offered by K-School(Course code:KEI)

■ **Requirements by department:**

○ Complete at least 12 credits under the major department.(see Annex)

■ **Research Courses:** 6 credits

○ Complete 6 credits in research courses. KEI550 Entrepreneur's Toolbox(3 credits) can transfer credits to research course.

■ **Transitional Measures**

○ Above requirements shall come into force in 2016 fall semester.

○ Requirements by Division of Future Vehicle and School of Business

and Technology Management shall come into force in 2017 spring semester.
<2016-6th Courses Committee>

○ Requirements by Graduate School of Knowledge Service Engineering shall come into force in 2017 spring semester.<2016-7th Courses Committee>

<Major Requirements>

Department /Program	Major credits	Details
Department of Physics	12	○ Major courses
Department of Mathematical Sciences	12	○ Include 6 credits from course numbered 500 or higher
Department of Chemistry	12	○ Mandatory elective : 9 credits (Include 9 credits in at least two fields from courses numbered 500 or higher) ○ General elective: 3 credits
Department of Biological Sciences	12	○ Include two courses numbered 400 or higher
Department of Mechanical Engineering	12	○ Major courses
Department of Aerospace Engineering	12	○ At least 12 credits among graduate-level courses beginning with AE (Include courses counted as both in Undergraduate and Graduate)
School of Electrical Engineering	12	○ Include at least three courses numbered EE500 or higher
- Division of Future Vehicle	12	○ Major courses
School of Computing	12	○ Only courses numbered CS500 or higher ※ Select two out of the three fields below, and complete at least one course in each field to fulfill 6 out of the required 12 credits 1) Theory : Algorithm design and analysis, formal language and automata theory, computational geometry, computational linguistics 2) Software : Programming language theory, software engineering, database systems, database design (credits recognized for either database systems or database design), artificial intelligence and machine learning, intelligent robotics, natural language processing 1, computer vision, computer graphics, semantic web, software system modeling, software and system design 3) Computer Systems : Computer structure, operating system, network architecture, internet system technology, advanced information protection, wireless mobile internet, distributed systems

Department for Civil and Environmental Engineering	12	○ Major courses
Department of Industrial and Systems Engineering	12	○ Include at least 9 credits from IE courses numbered 500 or higher
- Graduate School of Knowledge Service Engineering	12	○ Major course
Department of Chemical and Biomolecular Engineering	12	○ Mandatory courses: Include Chemical and Biomolecular Engineering Research Methodologies and Problem Solving in Chemical and Biomolecular Engineering(two courses)
Department of Materials Science and Engineering	12	○ Major courses
Department of Nuclear and Quantum Engineering	12	○ Major courses
School of Business and Technology Management	12	○ Mandatory 4 courses (MSB500 Advanced Statistics for Management, MSB510 Innovation Management and Strategy, MSB530 Accounting Principles, MSB538 Organization Management)