

**Major Course Completion Requirements for  
Dept. of Knowledge Service Engineering  
(For Master's Program)**

**Thesis Master's Degree Program**

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**Please check the common graduation requirements.**

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■ **Credit Requirement for Graduation:** Required to complete a total of more than 33 credits

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

- **Department designated subjects:** 1 course of CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering

■ **Elective Courses:** at least 21 credits

- at least 15 credits from KSE courses

■ **Research Courses:** at least 9 credits

- at least 9 credits including Seminar(2)

(Foreign students who completed HS586 do not need to take Seminar.)

**Major Course Completion Requirements for  
Dept. of Knowledge Service Engineering  
(For Doctoral Program)**

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**Please check the common graduation requirements.**

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■ **Credit Requirement for Graduation:** Required to complete a total of more than 63 credits

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

- **Department designated subjects:** 1 course of CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering

■ **Elective Courses:** at least 30 credits

- at least 18 credits from KSE courses

■ **Research Courses:** at least 30 credits

- at least 30 credits including Seminar(2)

(Foreign students who completed HSS586 do not need to take Seminar.)

※ The course credits earned in the Master's course work can be used towards the Doctoral degree (except research credits).

**Major Course Completion Requirements for  
Dept. of Knowledge Service Engineering  
(For MS-PhD Integrated Program)**

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**Please check the common graduation requirements.**

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■ **Credit Requirement for Graduation:** Required to complete a total of more than 63 credits

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

- Department designated subjects: 1 course of CC500 Scientific Writing, CC510 Introduction to Computer Application, CC511 Probability and Statistics, CC513 Engineering Economy and Cost Analysis, CC522 Introduction to Instruments, CC530 Entrepreneurship and Business Strategies, CC531 Patent Analysis and Invention Disclosure, CC532 Collaborative System Design and Engineering

■ **Elective Courses:** at least 30 credits

- at least 18 credits from KSE courses

■ **Research Courses:** at least 30 credits

- at least 30 credits including Seminar(2)

(Foreign students who completed HSS586 do not need to take Seminar.)

※ The course credits earned in the Master's course work can be used towards the Doctoral degree (include research credits).