

Major requirements for Industrial & Systems Engineering (For undergraduate students admitted in 2015 or before)

Please check the common graduation requirements.

■ **Credit Requirement for Graduation:** Required to complete a total of more than 130 credits

■ **(Special Note) Other curricular requirements except for major or research course set by Department of Industrial & Systems Engineering**

- Elective Basic Courses: at least 9 credits (The students who entered in or after the 2010 academic year must take the basic course of MAS109).

※ Students having a double major take 6 credits. (applicable to students entering KAIST in 2010 or after)

■ **Major:** at least 51 credits

- **Mandatory Major Courses:** at least 24 credits

- Engineering Statistics I, Manufacturing Process Innovation, Information Technology for Industrial Engineering, Production Management I, Operations Research I, Operations Research II, Engineering Statistics II, Applied Data Structures and Algorithms

- **Elective Major Courses:** at least 27 credits

- IE481: up-to 9 credits in case topics of the subjects taken are different respectively.

- Designated Elective Courses: The selected courses (up-to 9 credits) from other departments are accepted as Elective Course Credit of Industrial & Systems Engineering (applicable to students entering KAIST in Spring 2013 and thereafter; for those who have entered KAIST in 2012 and before, refer to the Course Completion Requirements by Year of Admission).

※ The selected list is available at the department office or the department homepage. It can change each year.

■ **Minor:** at least 18 credits

At least 18 credits in Industrial & Systems Engineering Major courses.

※ A maximum of 9 credits can be recognized from any courses

(Exception: if the student from Department of Industrial & Systems Engineering(ISE) takes minor in School of Business and Technology Management(BTM) after Spring, 2010 academic year, up-to 6 credits will be double counted for graduation requirements for both ISE and BTE.

■ **Double Major:** at least 40 credits

at least 40 credits from major courses, including 24 credits in required major courses.

※ A maximum of 9 credits can be recognized from any courses

■ **Research Courses:** up-to 6 credits

- Students must take 3 credits for Research in Industrial & Systems Engineering (IE490)

- IE Seminar : 1 credit (required), A foreign student doesn't need to take the seminar course.

- Individual Study : up-to 2 credits.

※ Students having a double major are exempt.

□ **Transitional Measures**

- Students admitted in 2015 or before may choose to be governed by the completion requirements applicable to students admitted in 2016 and after if desired.

- Students who entered since 2001 should fulfill current degree requirements.

But, Major Elective course will be applicable for all the enrolled students, and the basic course or Humanities and Social Sciences course must be taken according to the curricular requirements set by the year in which the student entered at KAIST.