

## Major Course Requirements for Dept. of Biological Sciences (For undergraduate students admitted in 2015 or before)

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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 130 credits

■ **Elective Basic Courses:** Including General Chemistry II (3) at least 9 credits

\* Students having a double major should earn at least 6 credits including General Chemistry II.

■ **Major:** Required to complete more than 48 credits

○ **Mandatory major:** 18credits

Molecular Biology, Biochemistry I, Biochemistry II, Biochemistry Experiment, Cell Biology, Cell Biology Experiment.

○ **Elective major:** 30credits

Four Chemistry major courses (CH221 Organic Chemistry I, CH223 Organic Chemistry II, CH263 Analytical Chemistry, CH325 Biological Organic Chemistry) and three Bio&Brain Engineering major courses (BiS335 Biomedical Statistics & Statistical Learning, BiS438 Bioinformatics) are also considered as elective major courses.

■ **Minor:** Required to complete more than 21credits

- Including 12 credits of subject with the ten-digits of subject number in 0, 21 credits or more major courses have to be completed.

※ A maximum of overlapping 9credits earned in major courses offered by other academic organizations can be recognized.

■ **Double Major:** Required to complete more than 40credits

- 40 credits including mandatory major courses

※ A maximum of overlapping 9credits earned in major courses offered by other academic organizations can be recognized.

■ **Research Courses:** Required to complete more than 3credits

- Thesis Research (Required): at least 3 credits (Students having a double major are exempt)
- Specified Research (Elective): at least 1 credits
- Seminar (Elective): at least 2 credits

**Transitional measure**

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

## Major Course Requirements for Dept. of Biological Sciences (For undergraduate students admitted in 2016 and after)

■ **Credit Requirement for Graduation:** Required to complete a total of more than 136 credits

※ Required to complete one among an advanced major, double major, minor and individually designed major

■ **Major:** Required to complete more than 42credits

○ **Mandatory major:** 18credits

Molecular Biology, Biochemistry I, Biochemistry II, Biochemistry Experiment, Cell Biology, Cell Biology Experiment.

○ **Elective major:** 24credits

Four Chemistry major courses (CH221 Organic Chemistry I, CH223 Organic Chemistry II, CH263 Analytical Chemistry, CH325 Biological Organic Chemistry) and three Bio&Brain Engineering major courses (BiS335 Biomedical Statistics & Statistical Learning, BiS438 Bioinformatics) are also considered as elective major courses.

■ **Advanced Major:** Required to complete a total of more than 12credits

■ **Individually Designed Major:** Required to complete a total of more than 12credits

- Required to more than 12 credits in major courses offered by more than two academic organizations

■ **Minor:** Required to complete at least 21credits

- Including 12 credits of subject with the ten-digits of subject number in 0, 21 credits or more major courses have to be completed

※ Recognition of overlapping credits earned in major courses offered by other academic organizations is not allowed.

■ **Double Major:** Required to complete a total of more than 40credits

- A maximum of overlapping 6credits earned in major courses offered by other academic organizations can be recognized

■ **Research Courses:** Required to complete more than 3credits

- Thesis Research (Required): at least 3 credits (Students having a double major are exempt)

- Specified Research (Elective): at least 1 credits
- Seminar (Elective): at least 2 credits

**Transitional measure**

Students admitted in 2015 or before may choose to be governed by the completion requirements listed above if desired.

## Major Course Requirements for Dept. of Biological Sciences (For graduate program)

### Research Master's

- **Credit Requirement for Graduation:** Required to complete a total of more than 33credits
- **Mandatory General Courses:** Required to complete more than 3credits
- **Mandatory Major Courses:**
- **Elective Courses:** Required to complete a total of more than 15credits
- **Research Courses:** Required to complete at least 15credits
  - At least 15 credits including 13 from Thesis Research and 2 from Seminar (General scholarship students need to earn at least one credit from Seminar and at least 14 credits from thesis research)

### Coursework Master's

- **Credit Requirement for Graduation:** Required to complete a total of more than 33credits
- **Mandatory General Courses:** Required to complete more than 3credits
- **Mandatory Major Courses:**
- **Elective Courses:** Required to complete a total of more than 21credits
- **Research Courses:** Required to complete at least 9credits
  - At least 9 credits including 7 from Thesis Research and 2 from Seminar (General scholarship students need to earn at least one credit from Seminar and at least 8 credits from thesis research)

### **Transitional Measure**

- This completion requirement is applied to freshman who entered KAIST in 2017.
- Students who entered KAIST in 2016 must achieve either previous completion requirement.

## **Major Course Requirements for Dept. of Biological Sciences (For doctoral program)**

■ **Credit Requirement for Graduation:** Required to complete a total of more than 60credits

■ **Mandatory General Courses:** Required to complete more than 3credits

■ **Mandatory Major Courses:**

■ **Elective Courses:** Required to complete a total of more than 21credits

■ **Research Courses:** Required to complete a total of more than 36credits

- Seminar : At least 4 credits (General scholarship students need to get at least 1 credit)
- Graduate student seminar : At least 2 credits (at least 1 presentation)
- Thesis Research : At least 30 credits  
(General scholarship students need to get at least 33 credits)

\* In case of graduate students seminar, general scholarship students can replace their credits to thesis research and foreign students can replace their credits to lectures in Korean.

### **Transitional Measure**

- This completion requirement is applied to freshman who entered KAIST in 2017.
- Students who entered KAIST in 2016 must achieve either previous completion requirement.
- The course credits earned in the Master's course work can be used towards the Doctoral degree(except research credits).

## **Major Course Requirements for Dept. of Biological Sciences (For MS-PhD Integrated Program)**

■ **Credit Requirement for Graduation:** Required to complete a total of more than 60credits

■ **Mandatory General Courses:** Required to complete more than 3credits

■ **Mandatory Major Courses:**

■ **Elective Courses:** Required to complete a total of more than 21credits

■ **Research Courses:** Required to complete a total of more than 36credits

- Seminar : At least 4 credits (General scholarship students need to get at least 1 credit)
- Graduate student seminar : At least 2 credits (at least 1 presentation)
- Thesis Research : At least 30 credits  
(General scholarship students need to get at least 33 credits)

\* In case of graduate students seminar, general scholarship students can replace their credits to thesis research and foreign students can replace their credits to lectures in Korean.

### **Transitional Measure**

- This completion requirement is applied to freshman who entered KAIST in 2017.
- Students who entered KAIST in 2016 must achieve either previous completion requirement.
- The course credits earned in the Master's course work can be used towards the Doctoral degree(except research credits).