

Major Course Requirements for Dept. of Biological Sciences (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

- **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:** 18 credits
Molecular Biology, Biochemistry I, Biochemistry II, Biochemistry Experiment, Cell Biology, Cell Biology Experiment.
 - **Elective major:** 30 credits
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 21 credits
 - 21 or more credits among the major courses have to be completed, including 12 credits among the mandatory courses.
 - ※ A maximum of overlapping 9 credits earned in major courses offered by other academic organizations can be recognized.

- **Double Major:** Required to complete more than 40 credits
 - 40 credits including mandatory major courses
 - ※ A maximum of overlapping 9 credits earned in major courses offered by other academic organizations can be recognized.

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

- 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.
- The above requirements for completion of minor apply to students starting his/her undergrad in 2020. Undergraduate students entering the school year before 2019 can choose either the revised minor requirements or the pre-amendment requirement.

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 42 credits

○ **Mandatory major:** 18 credits

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

○ **Elective major:** 24 credits

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 12 credits

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

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

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

- 21 or more credits among the major courses have to be completed, including 12 credits among the mandatory courses.

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

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

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

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

- 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.
- The above requirements for completion of minor apply to students starting his/her undergrad in 2020. Undergraduate students entering the school year before 2019 can choose either the revised minor requirements or the pre-amendment requirement.

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 33 credits
- **Mandatory General Courses:** Required to complete more than 3 credits
- **Mandatory Major Courses:**
- **Elective Courses:** Required to complete a total of more than 15 credits
- **Research Courses:** Required to complete at least 15 credits
 - 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 33 credits
- **Mandatory General Courses:** Required to complete more than 3 credits
- **Mandatory Major Courses:**
- **Elective Courses:** Required to complete a total of more than 21 credits
- **Research Courses:** Required to complete at least 9 credits
 - 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 60 credits

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

■ **Mandatory Major Courses:**

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

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

- 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 60 credits

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

■ **Mandatory Major Courses:**

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

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

- 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).