

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:** 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).