

[Name of the Certificate]
 "Systems Biology"

[Requirements for Acquiring a BI Program Certificate]

Students must earn 30 or more credits from the list below.

| | Subject name | Minimum number of credits |
|--|---|---------------------------|
| Program Courses, Research Concept and Methodology Courses, Special Courses | Advanced Molecular And Cellular Biology | At least 8 credits |
| | Genome Engineering Laboratory | |
| | Genome Design | |
| | Mathematical Biology | |
| | The Body Plan of Vertebrate | |
| | Conceptual Framework (BI) | |
| | Advanced Research (BI) | |
| Project Courses | Academic Project : Advanced Biosciences A (1) | At least 4 credits |
| | Academic Project : Advanced Biosciences B (1) | |
| Master Research | < Master Seminar in BI Program > | At least 4 credits |
| Master Thesis | Master Thesis1(1) | 2 credits |
| | Master Thesis2(1) | |

* Some students may be required to take the following undergraduate courses for supplemental study.
 Molecular And Cellular Biology 1/2/3/4, Fundamental Biology Laboratory,
 Genetic Engineering Laboratory, Genetic Analysis Laboratory, Life Systems

[Project Courses Related to the Program]

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| Advanced Biosciences A |
| Advanced Biosciences B |
| Multifaceted considerations of the meaning of "life" |