

Guidelines for Students Enrolling in the Non-Degree Conferring Program in Bioinformatics

Amended and approved by a meeting of the Department of Life Science Curriculum Committee on November 1, 2001
 Revised and approved by a meeting of the College of Science Curriculum Committee on March 26, 2002
 Amended and approved by a meeting of the National Central University Curriculum Committee on April 29, 2002
 Amended and approved by a meeting of the Academic Affairs Committee on June 18, 2002
 Amended by a meeting of the Department of Life Science Curriculum Committee on October 21, 2003
 Approved by a meeting of the College of Science Curriculum Committee on November 25, 2003
 Amended and approved by a meeting of the National Central University Curriculum Committee on December 3, 2003
 Amended and approved by a meeting of the Academic Affairs Committee on December 23, 2003
 Amended and approved by a meeting of the Department of Life Science Curriculum Committee on March 2, 2004
 Amended and approved by a meeting of the College of Science Curriculum Committee on March 4, 2004
 Amended and approved by a meeting of the National Central University Curriculum Committee on March 16, 2004
 Amended and approved by a meeting of the Academic Affairs Committee on March 25, 2004
 Amended and approved by a meeting of the Department of Life Science Curriculum Committee on November 7, 2006
 Amended and approved by a meeting of the College of Science Curriculum Committee on March 13, 2007
 Amended and approved by a meeting of the National Central University Curriculum Committee on March 21, 2007
 Amended and approved by a meeting of the Academic Affairs Committee on March 28, 2007

1. The aim of this program is to provide students with a foundation in bioinformatics so as to enable them to work or conduct research in this area.
2. Students studying in any college or department in the University may apply for entry into this program.
3. All University students who comply with these guidelines and earn the required number of credit hours shall have the name of the program as well as the number of credit hours they have earned from the program clearly indicated on their transcript and shall also be awarded a certificate of completion.
4. Students in the non-degree conferring program in bioinformatics must earn a total of 20 course credit hours, at least 14 of which must be from the following list of core course requirements listed and the remaining six credit hours (at least two courses) from the subsequent list of elective courses:

| Categories | Course Titles | Credit Hours | Departments offering the course |
|------------|--|--------------|---------------------------------|
| Core | 1. One of the following: Molecular Biology LS3014 (or LS3004 or PH7005) Fundamental Molecular Biology LS1005 | 4 or 3 | Department of Life Science or |

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| Courses | 2. One of the following: Genomics LS4007 Proteomics LS4008 Genomics and Proteomics LS6072 | 2 or 3 | other department offering a similar course |
| | 3. One of the following: Program Design IM1023 Program Language CE2004 | 3 | |
| | 4. One of the following: Database System CE6039 Database Management IM2002 | 3 | |
| | 5. One of the following: Biostatistics LS2012 Probability and Statistics CE2006 | 3 | |
| | 6. Statistical Genetics SB6010 | 3 | |
| | 7. Systems Biology SB6002 | 3 | |
| | Elective Courses | 1 One of the following: Introduction to Bioinformatics LS6053 Biotechnology Information PH4079 Biological Information I ST7017 | |
| 2. One of the following: Biological Information and Computational Molecular Biology CE6068 Computational Biology and Bioinformatics SB6001 | | 3 | |
| 3. Biomolecular Sequence Analysis LS6074 | | 3 | |
| 4. Biological Information Database CE7008 | | 3 | |
| 5. Biological Algorithms SB6008 | | 3 | |
| 6. Data Mining on Biological Information SB6011 | | 3 | |

5. Whether courses with similar titles and content taken in other University programs can be accepted in lieu of courses offered by this program shall be left to the discretion of the Department of Life Science.
6. These guidelines shall be implemented and entered into force upon approval by a meeting of the Academic Affairs Committee. The same procedure applies to any amendment of these guidelines.