Master of Biology Program

■ Program Overview

A Full-time student should study for two and a half years.

The program includes at least 30 credits in total, among which at least 19 credits in Degree Courses. Generally, all courses should be completed within the first school year. At least one research paper admitted BY SJTU should be published. In this paper, SLSB should be the first sender and the master student himself or herself should be the first author. Publications on SCI, SCIE, EI, ISIP magazines are encouraged. The Master should understand the basic theories of biology and experimental techniques, and be familiar with the current development situation in his or her research area. The Master should have the ability to be a well-qualified teacher in higher education area, and have the capacity of development and management in scientific research and scientific-oriented production.

■ Main Courses

| Туре | | Code | Course | Credits | Schedules | others |
|------------|-----------|---------|---------------------|---------|----------------------------------|---------------|
| Degree | public | G090511 | Chinese | 2 | Spring/Fall semester, in English | Compulsory |
| courses | courses | G090510 | A survey of Chinese | 2 | Spring semester, in English | Compulsory |
| | | | culture | | | |
| | | G071503 | Calculation Methods | 2 | Fall semester, in English | Alternatives |
| | | G071555 | Matrix Theory | 2 | Fall semester, in English | |
| | | B080702 | Academic Writing | 1 | Fall semester, in English | Compulsory |
| Degree or | Specializ | BI6008 | Cell and | 3 | Fall semester, in English | Tutors can |
| Non-degr | ed | | Developmental | | | decide, |
| ee courses | Courses | | Biology | | | whether these |
| | | BI6009 | Molecular Signal | 3 | Fall semester, in English | courses |
| | | | Transduction | | | degree or |
| | | BI6010 | Metabolic | 3 | Fall semester, in English | non-degree |
| | | | engineering and | | | are. Students |
| | | | Synthetic Biology | | | choose |

| | | BI6011 | Genetics and | 3 | Fall semester, in English | several of |
|--------|----------|---------|-----------------------|---|---------------------------|---------------|
| | | | Development | | | them, but |
| | | BI6001 | Bimolecular structure | 3 | Fall semester, in | remember: |
| | | | and function | | Chinese/English | 30 credits |
| | | BI5001 | The scientific study | 3 | Fall semester, in | must be |
| | | Bisour | of etiquette | 3 | Chinese/English | obtained and |
| | | BI6004 | Mathematical | 3 | Fall semester, in | 19 in degree |
| | | D10004 | | 3 | | courses. |
| | | DE (001 | Biology | 2 | Chinese/English | courses. |
| | | BE6001 | Modern biological | 3 | Fall semester, in | |
| | | | engineering | | Chinese/English | |
| | | BI6003 | Environment and | 3 | Spring semester, in | |
| | | | microbial evolution | | Chinese/English | |
| | | BI6006 | Biochemical | 3 | Fall semester, in | |
| | | | technology principle | | Chinese/English | |
| | | | and Application | | | |
| | | BI6007 | Bio-safety | 2 | Fall semester, in | |
| | | | | | Chinese/English | |
| | | BI6002 | Senior | 3 | Spring semester, in | |
| | | | Bioinformatics | | Chinese/English | |
| | | | (Alternative to | | | |
| | | | BI436) | | | |
| | | BI6005 | Structural | 2 | Spring semester, in | |
| | | | bioinformatics | | Chinese/English | |
| | | | (Alternative to | | | |
| | | | BI371) | | | |
| Non- | Spe | F080608 | Laboratory | 3 | Spring/Fall semester | Compulsory |
| degree | cialized | | Innovation Training | | | |
| 5 | | S080501 | Academic report | 2 | Spring/Fall semester | Compulsory |
| | | BI436 | Computer Aided | 2 | Fall Semester, in English | Elective, not |
| | | חנ+ום | Computer Aided | | 1 an Semester, in English | Elective, not |

| | | Drug Design | | | applicable |
|--|--------|---------------------|---|---------------------------|---------------|
| | | Drug Design | | | |
| | | | | | with BI6005 |
| | | | | | Structural |
| | | | | | bioinformatic |
| | | | | | s |
| | BI371 | Principal Algorithm | 3 | Fall Semester, in English | Elective, not |
| | | of Bioinformatics | | | applicable |
| | | | | | with BI6002 |
| | | | | | Senior |
| | | | | | Bioinformati |
| | | | | | cs |
| | PM6001 | Introduction to | 3 | Fall Semester, in English | Elective |
| | | pharmaceutical | | | |
| | | research | | | |
| | PM6003 | Introduction to | 3 | Fall Semester, in English | Elective |
| | | pharmacology | | | |