

Doctor of Biology Program

■ *Program Overview*

A Full-time student should study for 3 or 4 years, no longer than 5 years (including suspension). The program includes at least 16 credits in total. 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. The papers' total IF factors should be more than 3.0. The Doctor should have a solid rationale of molecular biology, biochemistry and other concerned knowledge of biology, as well as a good understand and skills on experimental techniques. The Doctor should also be able to design the scientific projects, launch academic research independently, and has the potential to be a senior talent with strong abilities of biological working.

■ **Main Courses**

Type	Code	Course	Credits	Schedule	others
Public courses	G090510	A survey of Chinese culture	2	Spring semester, in English	Compulsory
	G090511	Chinese	2	Spring/fall semester, in English	Compulsory
	B080702	Academic standardization and academic writing	1	Fall semester, in English	compulsory
Specialized courses	S080501	Academic report	2	Spring/fall semester	compulsory
	BI6008	Cell and Developmental Biology	3	Fall semester, in English	Elective Remember: total credits of public and specialized courses should be over 16.
	BI6009	Molecular Signal Transduction	3	Fall semester, in English	
	BI6010	Metabolic engineering and Synthetic Biology	3	Fall semester, in English	
	BI6011	Genetics and Development	3	Fall semester, in English	
	BI6001	Biomolecular structure and function	3	Fall semester, in Chinese/English	
	BI5001	The scientific study of etiquette	3	Fall semester, in Chinese/English	
	BI6004	Computational biology	3	Fall semester, in Chinese/English	
	BE6001	Modern biological engineering	3	Fall semester, in Chinese/English	
	BI6003	Environment and microbial evolution	3	Spring semester, in Chinese/English	

	BI6006	Biochemical technology principle and Application	3	Fall semester, in Chinese/English	
	BI6007	Bio-safety	2	Fall semester, in Chinese/English	
	BI6002	Senior Bioinformatics	3	Spring semester, in Chinese/English	
	BI6005	Structural bioinformatics	2	Spring semester, in Chinese/English	
	PM6001	Introduction to pharmaceutical research	3	Fall semester, in Chinese/English	
	PM6003	Introduction to pharmacology	3	Fall semester, in Chinese/English	