## Graduate Program for Biomedical Engineering

School		College of	Materials	Student T	уре	Master				
Discipline		Biomedica	ll Engineering	Discipline	e Code	0831				
Subject included										
Length of Study		Master <u>3</u> years;								
Credit Requirements		Master $\geq \underline{23}$ credits: $\geq \underline{20}$ credits for courses, $\underline{3}$ credits for other academic sections.								
Program Objectives This resea		This programedical second researches significant	program aims to cultivate innovative talents who (1) are equipped with basic theories of biology, cal science, and engineering science, and academic thoughts; (2) are able to do inter-disciplinary sches, and express their academic views fluently; and (3) are able to conduct researches of academic ficance and application value.							
Requirements Research Ability a	of	Candidates 1. grasp th of the abili 2. be of th	s are required to: ne development, literature, experimental methods and testing techniques of the chosen field, and be ity to apply them to their thesis writing; ne ability to design, observe, record, and analyze experiments, and the ability to discover and solve							
Other Aspects		problems;								
3.		3. be of the ability to process data and search for literature;								
		4. be of the ability to write scientific articles in both Chinese and English.								
		Curriculum (*SP-Spring semester; FA-Fall semester; SU-Summer semester: C-Compulsory: O-Optional)								
Category	Co Co	ourse	Course Name	Credit	Semester	Master	PhD	Remarks		
	0000		The First Foreign Language	2	FA,SP	С				
General Courses: Master <u>4</u>		0010102	Study on the Theory and Practice of Socialism with Chinese Characteristics	1	FA,SP	С				
cieuits	00	0010104	Nature Dialectics	1	FA	С				
Compulsory	32	0030201	Concept and Interface of Biomaterials	3	FA	0				
Courses: Master ≥ <u>9</u> credits	32	0010202	Advanced Molecular Biology	3	FA	0		3 out of the 4		
	32	0030203	Drug Delivery System	3	FA	0				
	32	0010204	Biophysics	3	FA	0				
	32	0010109	Laboratory Safety Training	0	FA	С				
	32	0010110	Research Methods and Presentation Skills	2	SU	0				

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Optional Courses:	32001011	1 S F	Scient Retriev	ific-Technical Information	1	FA	0		320010109 is	
Master _≥ <u>7</u> _	32003013	1 F	Functi	onal Polymer Materials	2	SP	0		a	
credits	320030205		Nanomolecular Imaging		2	FA	0		compulsoryco	
	32003020	6 N	Modern Analysis of Biomaterials		2	FA	0		urse for all	
	320030207		Biocompatibility Assessment of		2	FA	0		candidates	
			Medical Devices and Materials						though there	
	320010208		Biolog	gical Engineering	2	FA	0		is no credit	
			Technology						for it.	
	32003020	320030209 Tissu		Engineering 2 FA O						
	1. Candidates shall design an individual study plan within the first 2 weeks of their first school term. After the								term. After the	
Other	study plan	is rev	vieweo	and approved by the superv	visor with s	ignature, car	ndidates shall	submit	it to the college	
Requirements	for the rec	ord. C	Course	s selected or quitted will not b	e valid with	hout the sup	ervisor's appro	oval.		
	2. Candida	ates sha	hall abi	ide by rules established by the	e college an	d the depart	ment.			
			Oth	er Academic Sections (C-Co	mpulsory; (	D-Optional)				
Category	C or O	Cred	lit	Requirements				Evaluation		
cutegory	C or O Creat							(Ways and time)		
				Postgraduates shall attend at least 20 academic lectures, or						
				reports on engineering technology, and, every time, shall fill					to the thesis	
				out a form (Candidates can download it from the school					e candidates	
				website "Download Center") and have it signed by the					submit a report	
Academic				anchorperson.					attending	
Lectures	С	1		PhDs are required to deliver reports at least one time in the					nic lectures	
Lietures				college, or read their academic papers in national or					ting academic	
				international conferences. For those who choose to deliver					s) with at least	
				reports, they shall have their reports written and signed by their					characters.	
				supervisor, and send it to	1,000					
		their thesis defense.								
				The mid-term assessment	consists of	f an oral re	eport and a			
Mid-term		1		written report. The oral report shall indicate: (1) the objective					assessment is	
	С			and significance of the subject; (2) academic outcomes already usually organ					y organized in	
				achieved; (3) existing o	r potential problems and their		and their	the summer term of		
				corresponding solutions; (	4) scheduli	ng. The w	ritten report	t the second academic		
			shall be an essay with at least 3,000 characters, containing a							
				preface, experiments, discussions, and a conclusion. Candidates						

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			who have not undertaken the mid-term assessment are not be								
			allowed to apply for the t								
			assessment are allowed a se	onths later; if							
			they fail the second time, th								
Literature			The oral report shall indicate: (1) the purpose and the significance of the subject; (2) the status quo of its research at home and abroad; (3)research objectives and its expected purposes; (4) a feasibility analysis of the research; (5)the scheduling; (6) others (e.g. the results of a pilot study). The			It is usually organized in the summer term of the first academic year by the Department of					
Review and C 1		1	written report shall be an essay with at least 3,000 characters				erials.				
Research Repo	rt		and at least 30 referen experiments, discussions, ar not report their thesis prop thesis defense. Candidates allowed a second chance t fail two times will be shunte	ices, which contains nd a conclusion. Candie osal are not allowed to who fail their propos hree months later. Car ed.	a preface, dates who do o apply for a al report are adidates who	Candid evaluate or ur counts	ates are ed as qualified nqualified. It 1 credit.				
	The thesis	The thesis shall be concise, clear, and innovative. To obtain the degree, candidates are required to (1) publish at									
Thesis least 1 first-author (if the supervisor is the first author, and the candidate is the second, the candidate will deemed as the first-author.) academic paper relevant to the thesis in journals in SCI, EI, or ISTP (the acader achievements will be recognized on the reception of the letter of acceptance), or obtain a patent.							ndidate will be				
Major References and Journals (C-Compulsory; O-Optional)											
No. Title			Author	Evaluation*		Remarks (C or O)					
Evaluation ways: 1. Examination: Knowledge of references and journals to be covered on the examination;											
2. Examination on thesis proposal or comprehensive examination;											
	3. Reading	g Report;									
	4. Other s	pecific ways	З.								