

List of Courses for Master Program in Division of Translational Medicine

Applicable to Newly-Admitted Students from 109 Academic Year (2020 Fall)

Required credits	Required core courses : 6 credits
	Type : Thesis credits : 6 credits
	Remarks for required credits : 1. Biomedical Informatics: 6 Required 2. Translational Medicine: 4 Required
Total credits for graduating	36 credits

Elective credits	Elective courses : 20 credits
	Remarks for elective credits : 1. Biomedical Informatics: 18 Elective 2. Translational Medicine: 20 Elective
Maximum credits can be waived	Can waived : Any postgraduate courses credits : 20credits

Part I Required Courses

Category	Course title	Credits	Required /Elective	Grade level 1		Grade level 2		Language	Remarks
				Fall	Spring	Fall	Spring		
Required Courses in School Level	Research ethics	0	R	0	0			English	Required to complete Research ethics course once before graduation.
Required Courses for All Postgraduate (Required) Subtotal credits		0		0	0	0	0		
Required Courses in College Level -College of Medical Science and Technology (CoMST)	Special topics in processing & translational research of medical science & technology	2	R			2		English	
	Seminar	1	R	1				English	
	Seminar	1	R		1			English	
	Seminar	1	R			1		English	
Core Courses for Master Students in College (Required) Subtotal credits		6		1	1	3	1		
Required Courses in Institute Level (Division of Translational Medicine)	Fundamental of translational medicine	2	R	2				English	
	Molecular medicine for human diseases	2	R		2			English	
Required Courses (Division of Translational Medicine) Subtotal credits		4		2	2	0	0		
Required Courses in Institute Level	Thesis	6	R			6	6	Chinese	Need to take the course in the

Category	Course title	Credits	Required /Elective	Grade level 1		Grade level 2		Language	Remarks
				Fall	Spring	Fall	Spring		
(All Master Students)									graduation semester.
Thesis Subtotal credits		6		0	0	6	6		

Part II Elective Courses

Category	Course title	Credits	Required /Elective	Grade level 1		Grade level 2		Language	Remarks
				Fall	Spring	Fall	Spring		
Elective Courses in College Level	Fundamental biomedical knowledge	2	E	2				English	
	Fundamental programming design	2	E	2				English	
Need to take one of courses Subtotal credits		4		4	0	0	0		
Elective Courses in College Level (PhD and Master Students)	Precision genomics & proteomics in medical application	2	E		2			Chinese	
	Machine learning	2	E		2			English	
Core Courses for Postgraduate Students in College (Elective) Subtotal credits		4		0	4	0	0		
Elective Courses in College Level (Master Students)	Customized patent mapping program	2	E	2				Chinese	
	Advanced topics in microbiology	2	E	2				Chinese	
	Anticancer drugs & pharmacological actions	2	E		2			English	
	Artificial intelligence in medicine	1	E		1			Chinese	
	Practice in laboratory teaching	1	E		1			Chinese	
	Tumor molecular biology & microenvironment: current challenges & opportunities in oncology precision therapeutics	3	E				3	English	
Core Courses for Master Students in College (Elective) Subtotal credits		11		4	4	3	0		