

Year of Admission : 112

Degree Program : M-Master's Degree

Department/Graduate

Institute/Degree Program : M092 -Master Program in School of Medical Laboratory Science and Biot

※ According to the regulation offered by Ministry of Education, credits from distance learning shall not exceed half of total graduation credits.

※ Detailed information on digital self-learning courses, please refer to the FAQ page.

List of Courses and Credits (old version) : [Link](#)

ENRA121 List of Courses and Credits

List of Courses for Master Program in School of Medical Laboratory Science and Biotechnology in TMU (Applicable to Newly -Admitted Students from 112 Academic Year)

Category	Course title	Credits	Required/Elective	Full /Half Year	Grade Level 1 Fall	Grade Level 1 Spring	Grade Level 2 Fall	Grade Level 2 Spring	Grade Level 3 Fall	Grade Level 3 Spring	Grade Level 4 Fall	Grade Level 4 Spring	Minor	Double Major	Language	Distance Education	Remarks	
Core Courses for Postgraduate (Required)	Research ethics	0	R	H	0	0									Chinese	✓	Required to complete Research ethics course once before graduation.	
	Research ethics	0	R	H	0	0									English	✓	Required to complete Research ethics course once before graduation.	
Core Courses for Postgraduate (Required) Subtotal credits		0			0	0	0	0	0	0	0	0	0					
Core Courses for Postgraduate Students in College (Required)	Special topics in processing & translational research of medical science & technology	2	R	H			2								English			
	Core Courses for Postgraduate Students in College (Required) Subtotal credits	2			0	0	2	0	0	0	0	0	0					
Core Courses for Master Students in College (Required)	Seminar	1	R	H	1										English			
	Seminar	1	R	H		1									English			
	Seminar	1	R	H			1								English			
	Seminar	1	R	H				1							English			
Core Courses for Master Students in College (Required) Subtotal credits		4			1	1	1	1	0	0	0	0	0					
Required Courses	Molecular cell biology	2	R	H	2										English			
	Advanced topics in medical laboratory research	2	R	H	2										English			
	Advanced cell therapy	2	R	H	2										Chinese			
Required Courses Subtotal credits		6			4	2	0	0	0	0	0	0	0					
Thesis	Thesis	6	R	H			6	6							Chinese		Need to take the course in the graduation semester.	
	Thesis Subtotal credits	6			0	0	6	6	0	0	0	0	0					
Core Courses for Postgraduate (Elective)	Health data analysis	2	E	H	2										Chinese	✓		
	Core Courses for Postgraduate (Elective) Subtotal credits	2			2	0	0	0	0	0	0	0	0					
Core Courses for Postgraduate Students in College (Elective)	Machine learning	2	E	H	2										English			
	Core Courses for Postgraduate Students in College (Elective) Subtotal credits	2			0	2	0	0	0	0	0	0	0					
Core Courses for Master Students in College (Elective)	Customized patent mapping program	2	E	H	2										Chinese			
	Fundamental programming design	2	E	H	2										Chinese	✓		
	Data mining	2	E	H	2										Chinese			
	Fundamental biomedical knowledge	2	E	H	2										English	✓		
	Practice in laboratory teaching	1	E	H	1										Chinese			
	Assisted reproductive technologies	2	E	H	2										Chinese			
	Anticancer drugs & pharmacological actions	2	E	H	2										English			
	Cell biology & signaling	2	E	H	2										English			
	Act, ethic & management of assisted reproductive technologies	1	E	H	1										Chinese			
	Reproductive medicine global market	1	E	H	1										Chinese			
Tumor molecular biology & microenvironment: current challenges & opportunities in oncology precision therapeutics	3	E	H			3								English	✓			
Biomedical industry & biodesign	2	E	H	2										English				
Core Courses for Master Students in College (Elective) Subtotal credits		22			9	8	5	0	0	0	0	0	0					
Credits Required		Required core courses : 6 credits Featured courses(required) : 6 credits Type : Thesis credits : 6 credits					Elective Credits Required					Elective core courses : 12 credits Can waived : Any courses at the same degree in TMU credits : 12credits						
Total Credits Required for Graduation		30 credits					Maximum credits can be waived					12 credits						
Notes for Graduating Requirement Approved by Academic Affairs Meeting on (time, date)		112/12/18																