

List of Courses for Ph.D. Program for Cancer Molecular Biology and Drug Discovery in TMU (Applicable to Newly -Admitted Students from 109 Academic Year)

Category	Course title	Credits	Required	Elective	Full Half Year	Grade Level 1		Grade Level 2		Grade Level 3		Grade Level 4		Grade Level 5		Grade Level 6		Grade Level 7		Minor	Double Major	Language	Distance Education	Remarks		
						Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring							Fall
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	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	0	0	0	0	0	0						
Core Courses for PhD Students in College (Required)	Seminar	1	R		H	1																English				
	Cell biology & artificial intelligence in biomedical informatics	2	R		H	2																English				
	Seminar	1	R		H	1																English				
	Seminar	1	R		H			1														English				
	Seminar	1	R		H				1													English				
Core Courses for PhD Students in College (Required) Subtotal credits		6				1	3	1	1	0	0	0	0	0	0	0	0	0	0	0						
Required Courses	Molecular cancer biology	2	R		H	2																English				
	Molecules medicine & drug discovery	2	R		H	2																English				
	Drug design & development	2	R		H	2																English				
Required Courses Subtotal credits		6				4	2	0	0	0	0	0	0	0	0	0	0	0	0	0						
Dissertation	Dissertation	12	R		H		0	12	12	0	0	0	0	0	0	0	0	0	0	0		Chinese			Need to take the course in the graduation semester.	
Dissertation Subtotal credits		12				0	0	12	12	0	0	0	0	0	0	0	0	0	0	0						
Core Courses for Postgraduate Students in College (Elective)	Precision genomics & proteomics in medical application	2	E		H	2																Chinese				
	Machine learning	2	E		H	2																English				
Core Courses for Postgraduate Students in College (Elective) Subtotal credits		4				0	4	0	0	0	0	0	0	0	0	0	0	0	0	0						
Core Courses for PhD Students in College (Elective)	Experimental design & research methods	2	E		H	2																English				
	Animal models of disease research	2	E		H	2																English				
	Epigenetics	2	E		H	2																English				
	Medical decision support	2	E		H	2																English				
	Bioinformatics in precision medicine	2	E		H	2																English				
	Stem cell translational research & therapeutics	2	E		H	2																English				
Core Courses for PhD Students in College (Elective) Subtotal credits		14				12	2	0	0	0	0	0	0	0	0	0	0	0	0	0						
Credits Required		Required core courses : 8 credits Featured courses(required) : 6 credits Type : Dissertation credits : 12 credits										Elective Credits Required						Elective courses : 4 credits Can waived : Any courses at the same degree in TMU credits : 4credits								
Total Credits Required for Graduation		30 credits										Maximum credits can be waived						9 credits								
Notes for Graduating Requirement																										
Approved by Academic Affairs Meeting on (time, date)		109/05/13																								