2026 Spring Curriculum of Institute of Precision Medicine

Class		M.S. (24 credits)	Ph.D. (18 credits)
Required courses		 Introduction to innovative precision medicine (3) Seminar I (1) Seminar II (1) Seminar III (1) Seminar IV (1) 	 Innovation in translational medicine (3) Seminar I (1) Seminar III (1) Seminar IV (1) Independent studies in biomedical research (1) (3) Independent studies in biomedical research (II) (3)
Core courses (choose 2)		 Advanced biomedical statistics (3) Bioinformatics (3) Biochemistry and molecular biology (3) Cancer biology (3) Signal transduction and drug development (3) DNA repair mechanisms in cancer development and therapy (3) Genomics (3) 	
Elective courses	Independent studies	Please discuss with your advisor before selecting elective courses Independent studies in simulations on protein dynamics (I, II) (3, 3) Independent studies in real-world health data (I, II) (3, 3) Independent studies in multi-omics data analysis (I, II) (3, 3) Independent studies in precision medicine in oncology (I, II) (3, 3) Independent studies in bioelectronics design (I, II) (3, 3) Independent studies in therapeutic strategies for fibrosis and cancer (I, II) (3, 3) Independent studies in molecular oncology (I, II) (3, 3) Independent studies in gene and behavior (I, II) (3, 3)	
	AI Precision Medicine	 Introduction to computer-aided drug design (3) R programming for biomedical data (3) Molecular device design (2) Processing biomedical information Biologoup Biologoup Biol	m biology (3) gical modeling (3) tural biology (3) gical database (3) duction to mass rometry (3) iples of artificial igence (3)
	Interdisciplinary Courses	 Design and analysis of clinical trials (2) MRI:basic principles, clinical applications and biomedical researches (2) Development and application of Mass Praction (3) Microbiomedical biomedical Application of 	 Polymer characterization polymer characterization (3) Polymer characterization (3) Medical computer system and analysis (3) Applications of molecular biology and biochemistry (3) Applications of molecular biology and biochemistry (3) Bioengineering (3)
	BioClinical Precision Medicine	 Metagenomics (3) Pathology (3) Genetics (3) Introduction to health care (2) Introduction to clinical medicine (2) Microduction (3) 	 Introduction of clinical trials (2) and clinical applications of sion medicine and cell biology and immunology Emiology (3) Introduction of clinical trials (2) Signaling pathways in human diseases (3) Development of drug delivery (3) Advanced cell biology (3) Principle of molecular and cellular biology experiments (3)