

**Track one: Molecular diagnostics track**

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1	373500-4	Principle of molecular and cellular biology	Required	-	4	Program
	373501-3	Principles of Human genetics	Required	-	3	Program
	373503-2	Biostatistics and data interpretation	Required	-	2	Program
	373504-2	Advanced laboratory management and operation	Required	-	2	Program
Level 2	373505-2	Ethical considerations in molecular diagnosis	Required	-	2	Program
	373506-4	Approaches to diagnosis and management of Molecular disorders	Required	373500-4	4	Program
	373507-4	Molecular diagnostic practicum	Required	-	4	Program
	373508-2	Research Methods I: Building a Proposal	Required	373503-2	2	Program
Level 3	373509-2	Research Methods II: Implementation of Research Plan	Required	373508-2	2	Program
	373510-4	Molecular basis of disease I	Required	373500-4& 373501-3	4	Program
	373520-2	Biomedical sciences applications	Required	---	2	Program
	373521-4	Introduction to bioinformatics and computational biology	Required	373501-3	4	Program
Level 4	373522-3	Student Project	Required	373508-2	3	Program
	373523-4	Molecular basis of disease II	Required	373500-4& 373501-3	4	Program
	373524-2	Current developments in molecular diagnostics	Required	-	2	Program
	373525-4	Clinical practice	Required	-	4	Program