

INDIVIDUALIZED MEDICINE (IDVM) - CERTIFICATE

• M. Hassan Murad, M.D., MPH, *Program Director*

The Certificate program in Individualized Medicine is available to Mayo Clinic professionals who are working in related disciplines. Doctoral candidates may be considered. Potential candidates for the degree must hold Mayo Clinic appointments of sufficient duration to complete the program requirements.

Course Work

The curriculum for the Certificate award consists of 12 credits. The student must complete all of the required courses listed below:

Code	Title	Hours
Core Courses		
MGS 6000	Responsible Conduct of Research	1
Track Requirements		
CTSC 5005	Foundations of Clinical and Translational Science	1
CTSC 5020	Regulatory Issues in Clinical Research	1
CTSC 5300	Foundations of Epidemiology	1
CTSC 5340	Ethical Issues in Individualized Medicine	1
CTSC 5400	Introduction to Bioinformatics Concepts and Core Technologies for Individualized Medicine Approaches	1
CTSC 5410	Molecular Variant Evaluation	2
CTSC 5590	Foundations of Statistics in Clinical and Translational Research	1
CTSC 6160	Genomic Analysis and Data Interpretation for Rare and Undiagnosed Diseases	2
Electives		
Students must take an additional one credit from elective courses		1
Total Hours		12

Suggested Sequence

Below is an example of a suggested sequence based on a Summer term start. Individual course plans will vary depending on the quarter you enter the program and/or if you are pursuing an optional concentration, etc. Progress on the course plan should be documented on your degree planning tool. Contact the track Education Coordinator for additional information.

Code	Title	Hours
First Year - Summer Term		
MGS 6000	Responsible Conduct of Research	1
CTSC 5020	Regulatory Issues in Clinical Research	1
CTSC 5590	Foundations of Statistics in Clinical and Translational Research	1

Code	Title	Hours
First Year - Fall Term		
CTSC 5005	Foundations of Clinical and Translational Science	1
CTSC 5300	Foundations of Epidemiology	1
CTSC 5340	Ethical Issues in Individualized Medicine	1

Code	Title	Hours
First Year - Winter Term		
CTSC 5400	Introduction to Bioinformatics Concepts and Core Technologies for Individualized Medicine Approaches	1
CTSC 5410	Molecular Variant Evaluation	2
First Year - Spring Term		
CTSC 6160	Genomic Analysis and Data Interpretation for Rare and Undiagnosed Diseases	2
Elective		1