

Medical Genetics, Minor

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The medical genetics minor is designed to foster the learning and application of foundational and advanced concepts in medical genetics, genomics, epigenetics and their clinical applications while promoting ethical engagement in this rapidly advancing discipline. The minor enhances students' preparation for careers and further study in genetics-related fields such as genomics, genetic counseling and precision medicine.

Requires 19 credit hours. All courses in the minor must be completed with grades of C- or higher and an overall grade point average of 2.000. At least 10 of the 19 credits must be unique to the medical genetics minor (i.e., not used to fulfill the requirements for any other major/minor. The courses can be used to fulfill cognate or foundational courses for other majors/minors)

Code	Title	Hours
Required Courses		10
BISC 4173	Principles of Human Embryology	
BISC 4340	Human and Applied Medical Genetics	
BISC 4341	Advanced Cellular Genetics and Cancer	
or BISC 4341H	Honors Advanced Cellular Genetics and Cancer	
BISC 4342	Epigenetics and Human Disease	
Medical/Biomedical Ethics - Choose one of the following:		3
HEAL 3200	Bioethics for Healthcare: Foundations, Dilemmas and Decision-Making	
PHIL 4335	Biomedical Ethics	
THEO 4450	Medical Ethics	
Communications Skills - Choose one of the following:		3
CMST 4310	Ethics in Human Communication	
CMST 4500	Health Communication	
CMST 4520	Health Communication Campaigns	
CMST 4530	Patient-Centered Communication	
Elective - Choose one of the following:		3
BISC 4153	Epidemiology	
BISC 4160	Human Molecular Pathology and Clinical Therapeutics	
BISC 4210	Biology of Aging	
BISC 4986	Internship in Biomedical Sciences	
BISC 4987	Internship in Biomedical Sciences-Grading Period	
BISC 4988	Research Internship in Biomedical Sciences	
BISC 4989	Research Internship in Biomedical Sciences-Grading Period	
BIOL 3201	Genetics	
BIOL 4201	Genomics and Bioinformatics	
BIOL 4202	Experimental Genetics	
COSC 1820	Data, Ethics and Society	
PSYC 2101	Introduction to Life-Span Developmental Psychology for the Health Professions	
SOCI 3500	Culture, Health and Illness	
SOCI 3550	Race, Gender and Medicine	
SOWJ 3300	Practice Skills with Individuals and Families	

Total Credit Hours: 19

University Policies

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- Academic Censure - Undergraduate (<https://bulletin.marquette.edu/policies/academic-censure/undergraduate/>)
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- Accelerated Degree Programs (<https://bulletin.marquette.edu/policies/accelerated-degree-programs/>)
- Advanced Standing Credit - Undergraduate (<https://bulletin.marquette.edu/policies/advanced-standing-undergraduate/>)
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- Grading System - Undergraduate and Health Science Professional (<https://bulletin.marquette.edu/policies/grading-system/undergraduate-healthscienceprofessional/>)
- Graduation - Undergraduate (<https://bulletin.marquette.edu/policies/graduation/undergraduate/>)
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College of Health Sciences Policies

- Academic Dismissal/Probation/Academic Alert (CAA) (<https://bulletin.marquette.edu/health-sciences/policies/dismissal-probation-alert/>)
- Dean's List Criteria (<https://bulletin.marquette.edu/health-sciences/policies/deans-list-criteria/>)
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