

Graduate Minor in Genetics 8_17_2018

1) Selecting a Genetics minor advisor: A faculty member whose primary affiliation is with the Department of Biology, and who has expertise in Genetics, must join the student's Advisory Committee and must participate in designating required course work. This minor advisor will determine whether courses meet the minor requirement in accordance with the rules set out in the program.

(2) Number of credits: A Genetics minor requires a minimum of 6 credits of graduate courses. The Genetics minor may be fulfilled from any of the courses listed on page 2. A course may not simultaneously satisfy both major and minor course requirements. Course offerings outside of the list below can be used to satisfy the Genetics minor **only if prior approval is obtained** from the minor advisor, the GCDB Graduate Program Director, and the Graduate School.

(3) Grades: An overall average of B (3.0) or better is required in a course to be counted towards the Genetics minor.

(4) Transferring in credit for the Genetics minor: A student may apply courses taken for a MS degree at another university if the transfer is approved by the student's advisory committee, the minor advisor, the GCDB program director, and the Graduate School.

Course Listings for Genetics Minor¹

- BIOL-L511 Transcription, Epigenetics, and Human Disease (3cr)
- BIOL-L533 Evolution of Genes and Genomes (3cr)
- BIOL-L567 Evolution (3cr)
- BIOL-L585 Genetics and Bioinformatics (3cr)²
- BIOL-L586 Cell Biology (3cr)²
- BIOL-L587 Developmental Biology (3cr)²
- BIOL-Z620 Bioinformatics-2-Go (1.5 cr)²
- BIOL-M511 Molecular Biology of Prokaryotes (3cr)
- BIOL-M541 Bacterial Pathogenesis and Virology (3cr)
- BIOL-M585 Microbial Genetics and Virology (3cr)
- BIOL-Z620 Bacterial Genetics and Molecular Virology (1.5 cr)
- BIOL-Z620 Evolution of Proteins and Cells (3cr)
- BIOL-Z620 Introduction to Computational Data Processing in Biology (1.5cr)
- BIOL-Z620 Introduction to Computational Workflow Design in Biology (1.5cr)
- BIOL-Z620 CyberInfrastructure-enabled Computational Genome Science (3cr)
- BIOL-Z620 Phylogenetics (3cr)
- BIOL-Z620 Introduction to Genomics and Bioinformatics (1.5cr)
- BIOL-Z620 Genetics of Behavior (3cr)
- BIOL-Z620 Microbial Genetics and Techniques (1.5cr)
- BIOL-Z620 Chromosome and Genome Biology Journal Class³
- BIOL-Z620 Cell Biology Journal Class³
- BIOL-Z620 Methods in Epigenomics
- BIOL-Z620 The Legacy of Drosophila (3cr)
- BIOL-Z620 Digital Imaging and Light Microscopy(1.5cr)
- BIOC-B512 Biochemical mechanisms of DNA repair (1.5cr)
- BIOC-B513 Molecular Mechanisms of Cancer (1.5cr)
- INFO-I519 Introduction to Bioinformatics (3cr)
- INFO-I590 SNP Discovery and Population Genetics (3cr)
- PHSL-P550 Physiology of Cancer Journal Class³
- MSCI-M580 Molecular Biology of Cancer (3cr)
- PSY-P467 Diseases of the Nervous System (3cr)
- PSY-P526 Neurobiology of Learning and Memory (3cr)
- PSY-P566 Molecular and Cellular Neurobiology (3cr)

¹ Or an equivalent course at IU or graduate work transferred from another university with prior approval of the GCDB Graduate Program Director

² GCDB students cannot use these courses for the Genetics minor due to overlap with major degree requirements.

³ The same journal class cannot be taken twice to fulfill the major and minor. However, different journal classes can be taken for the major and minor.