

Requirements for the Genetics Minor:

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 below. **A course may not simultaneously satisfy both major and minor course requirements.** Course offerings not on 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. In addition to preliminary emails, official approval requires routing a "Request for Substitution or Waiver of Program Requirements" edoc that can be found on One IU.

(3) Grades: An overall average of B- (2.7) 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 Minor (2024-2025 Graduate School Bloomington Bulletin List)

ABEH A501 Seminar in the Integrative Study of Animal Behavior/Professional Development Workshop for Biobehavioral Sciences (2cr)

BIOC-B511 Duplicating and Expressing the Genome (3cr)

BIOC-B512 Biochemical mechanisms of DNA repair (1.5cr)

BIOC-B513 Cell response to DNA damage (1.5cr)

BIOL-L500 Independent Study (1cr)

BIOL-L567 Evolution (3cr)

BIOL-L568 Evolutionary Genetics (3cr)

BIOL-L585 Genetics (3cr)

BIOL-L586 Cell Biology (3cr)

BIOL-L587 Developmental Biology (3cr)

BIOL-M511 Molecular Biology of Prokaryotes (3cr)

BIOL-M541 Virology and Host Responses (3cr)

BIOL-M550 Microbiology (3cr)

BIOL-Z562 Genetics of Behavior (3cr)

BIOL-Z620 Digital Biology:Introduction to Bioinformatics (3cr)

BIOL-Z620 Current Advances in Genome and RNA Biology (1cr)

BIOL-Z620 Advances in Drosophila Genetic Research

BIOL-Z620 Advanced Topics in Genome, Cellular, and Developmental Biology

BIOL-Z620 Bioinformatics-2-Go (1.5cr)

BIOL-Z620 Biological Electron Microscopy (1.5cr)

BIOL-Z620 Cell Biology Journal Class

BIOL-Z620 Chromosome and Genome Biology Journal Class

BIOL-Z620 Digital Imaging and Light Microscopy (1.5cr)

BIOL-Z620 Ecological Plant Physiology (3cr)

BIOL-Z620 Entomology (2cr)

BIOL-Z620 Evolution of Proteins and Cells (3cr)

BIOL-Z620 Evolutionary Genetics and Genomics (3cr)

BIOL-Z620 Genetics of Human Metabolic Disease (3cr)

BIOL-Z620 Growth and Metabolism Journal Club (1cr)
BIOL-Z620 Genomics and Eco-Evolution of Multi-Scale Symbioses (1cr)
BIOL-Z620 Host-Microbe Interactions (1cr)
BIOL-Z620 Introduction to Genomics and BioInformatics (1.5cr)
BIOL-Z620 Mechanisms of Symbiosis (1cr)
BIOL-Z620 Peer Review in the Life Sciences
BIOL-Z620 Recent advances in genetics and cell biology (3cr)
BIOL-Z620 Transcription, Epigenetics, and Human Disease
BIOL-Z620 Quantitative Thinking and Python Programming
BIOT-T 508 Theory and Applications of Biotechnology Lecture (3cr)
BIOT T 525 Protein expression, purification, and characterization lab (3cr)
INFO-I519 Introduction to Bioinformatics (3cr)
INFO-I590 SNP Discovery and Population Genetics (3cr)
MSCI-M509 Scientific Communication (1cr)
MSCI-M510 Research Methods in Cell and Molecular Biology (2cr)
MSCI-M550 Seminar in Cancer Biology (1cr)
MSCI-M580 Molecular Biology of Cancer (3cr)
PHSL-P550 Physiology of Cancer Journal Class (1cr)
PSY-P467 Diseases of the Nervous System (3cr)
PSY-P526 Neurobiology of Learning and Memory (3cr)
PSY-P566 Molecular and Cellular Neurobiology (3cr)
SPH-Q 611 Statistical Packages in Research (3cr)