

**ANTICIPATED SCHEDULE OF MOLECULAR GENETICS COURSE OFFERINGS
FOR MAJORS 2019/20**

Changes may occur due to staffing or enrollment. Please consult with your advisor as you plan your schedule

CORE COURSES

	Autumn 2019	Spring 2020	Summer 2020
MolGen 4606 (4 cr) Molecular Genetics (Prereq: Bio 1113)	Drs. Cole and Singh	Dr. Chamberlin	no offering
MolGen 5601 (4 cr) Eukaryotic Molecular Genetics Lab (Prereq: 4500 or 4606)	no offering	Drs. Wharton and Wu	(May offering, 3 credit hours) Dr. Park
MolGen 5602 (4 cr) Eukaryotic Cell and Developmental Biology Lab (Prereq: 4500 or 4606)	Dr. Seeger	no offering	no offering
MolGen 5607/E (3 or 4 cr) Cell Biology (Prereq: 4500 or 4606)	Drs. Herman and Meier	no offering	no offering
MolGen 5608/E (3 or 4 cr) Genes and Development (Prereq: 4500 or 4606)	no offering	Drs. Dobritsa and Weinstein	no offering
MolGen 5645 (2 cr) Quantitative, Population, and Evolutionary Genetics (Prereq: 4500 or 4606)	Dr. Seeger	no offering	no offering
Biochem 4511 (4 cr) Introduction to Biological Chemistry	Offered through Biochemistry	Offered through Biochemistry	Offered through Biochemistry

ELECTIVE COURSES

	Autumn 2019	Spring 2020	Summer 2020
MolGen 2220H (1 cr) Introduction to Molecular Life Sciences: Research Opportunities and Career Options (Prereq: Bio 1113 or instructor permission) (Note that honors standing is NOT required to enroll)	Dr. Hopper	Dr. Hopper	no offering
MolGen 2690 (3 cr) Genes and Society NOTE: this interdisciplinary course will provide science-based exposure to topics in classical and modern genetics but with an emphasis on social and ethical issues.	no offering	Drs. Cole and D'Arms	no offering
MolGen 3300 (3 cr) General Plant Biology (Prereq: Bio 1113)	no offering	Dr. Hamel	no offering
MolGen 3436 (3 cr) Introductory Plant Physiology (Prereq: Bio 1113)	Dr. Somers and TBA	no offering	no offering
MolGen 4591S (1 cr, graded S/U) DNA Fingerprinting Workshop (Prereq: 4500 or 4606)	no offering	Dr. Bird	no offering
MolGen 4700 (3 cr) Molecular Cell and Developmental Biology NOTE: this class can only be used as an elective with the PRIOR permission of your major advisor.	no offering	Drs. Fisk and Seeger	no offering
MolGen 4703 (2 cr) Human Genetics (Prereqs: 4500 or 4606)	no offering	Dr. Cole	no offering
MolGen 5300 (2 cr) Cancer Genetics (Prereqs: 4500 or 4606, and 5607 recommended)	Drs. Ch. Burd and Cr. Burd	Drs. Fisk and TBA	no offering
MolGen 5623 (2 cr) Genetics and Genomics (Prereq: 4500 or 4606, 5607, and 5608)	no offering	Drs. Amacher and Hollick	no offering
MolGen 5630 (3 cr) Plant Physiology (Prereq: 4500 or 4606 and 3300)	Dr. Verma	no offering	no offering
MolGen 5650 (3 cr) Analysis and Interpretation of Biological Data	Dr. Booton	no offering	no offering

(Prereqs: Math 1149 or 1150, and 10 credit hrs of life science courses at the 3000 level or higher)			
MolGen 5700 (3 cr) Systems of Genetic Analysis (Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)	Drs. Ch. Burd, Dobritsa, Osmani, Weinstein, and Wharton	no offering	no offering
MolGen 5701 (3 cr) DNA Transactions and Gene Regulation (Prereqs: 4500 or 4606 and Biochem4511; this is a class designed for 1st year grad students)	Drs. Bisaro and Cr. Burd	no offering	no offering
MolGen 5705 (2 cr) Advances in Cell Biology (Prereqs: 5607; this is a class designed for 1st year grad students)	no offering	Drs. Meier, Osmani, Park, and Wu	no offering
MolGen 5715 (2 cr) Developmental Genetics (Prereqs: 5608; this is a class designed for 1st year grad students)	no offering	Drs. Dawes, Husbands, and Miles	no offering
MolGen 5735 (3 cr) Plant Biochemistry (Prereq: Biochem 4511)	no offering	Dr. Verma	no offering
MolGen 5797-SA01 (3 cr) Study at a Foreign Institution (Prereqs: 4500 or 4606) <i>This provides an opportunity for students to travel to Norway to engage in coursework related to human and medical genetics. Travel occurs in May, but an application process must be completed in the Spring.</i>	no offering	no offering	Dr. Hamel
MolGen 5800 (2 cr) Organelle Biology (Prereqs: 4500 or 4606, and 5607 recommended)	no offering	No planned offering 19/20. Possible offering 20/21	no offering

Approved electives from other departments are also offered. These include: BIOCHEM 5621; EEOB 4520, 6310; MICRO 4000, 4100, 4130, 5122, 5149, 5161, 6080; NEURO 4050; and PSYCH 5602. (some of the courses may have additional prereqs, please check course listings) Check with your advisor about other potential electives from outside of Molecular Genetics.