

ANTICIPATED SCHEDULE OF MOLECULAR GENETICS COURSE OFFERINGS 2020/21

- Both Molgen 4703(Human Genetics) and Molgen 5300 (Cancer Genetics) are now 3 credit hour courses
- Only 3 credit hours graded S/U can count towards the 30 credit hour major
- Only 3 credit hours at the 2000 level can count towards the 30 credit hour major
- Molgen 4700 (Molecular Cell and Developmental Biology) can not be used as elective credit for the major unless you have PRIOR permission from your faculty advisor.

Changes may occur due to staffing or enrollment.

CORE COURSES

	Autumn 2020	Spring 2021	Summer 2021
MolGen 4606 (4 cr) Molecular Genetics (Prereq: Bio 1113)	Drs. Aman and Singh	Dr. Chamberlin	no offering
MolGen 5601 (4 cr) Eukaryotic Molecular Genetics Lab (Prereq: MolGen 4500 or 4606)	no offering	Drs. Wharton and ???	(May offering, 3 credit hours) TBD
MolGen 5602 (4 cr) Eukaryotic Cell and Developmental Biology Lab (Prereq: MolGen 4500 or 4606)	Dr. Seeger	no offering	no offering
MolGen 5607/E (3 or 4 cr) Cell Biology (Prereq: MolGen 4500 or 4606)	Drs. Herman and Meier	no offering	no offering
MolGen 5608/E (3 or 4 cr) Genes and Development (Prereq: MolGen 4500 or 4606)	no offering	Drs. Dobritsa and Weinstein	no offering
MolGen 5645 (2 cr) Quantitative, Population, and Evolutionary Genetics (Prereq: MolGen 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 2020	Spring 2021	Summer 2021
MolGen 2220H (1 cr) Introduction to Molecular Life Sciences: Research Opportunities and Career Options (Prereq: Bio 1113) (Contact Dr. Hopper to discuss enrollment if you are not a student in Honors or Scholars)	Dr. Hopper	Dr. Hopper	no offering

ELECTIVE COURSES	Autumn 2020	Spring 2021	Summer 2021
MolGen 2690 (3 cr) Genes and Society This interdisciplinary course provides science-based exposure to topics in classical and modern genetics but with an emphasis on social and ethical issues.	no offering	no offering	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: MolGen 4500 or 4606)	no offering	no offering	no offering
MolGen 4703 (3 cr) Human Genetics (Prereqs: MolGen 4500 or 4606)	no offering	Dr. Cole	no offering
MolGen 5300 (3 cr) Cancer Genetics (Prereqs: MolGen 4500 or 4606, and 5607 recommended)	Drs. Ch. Burd and Cr. Burd	Dr. Fisk	no offering
MolGen 5623 (2 cr) Genetics and Genomics (Prereq: MolGen 4500 or 4606, 5607, and 5608)	no offering	Drs. Amacher and Hollick	no offering
MolGen 5630 (3 cr) Plant Physiology (Prereq: MolGen 4500 or 4606 and 3300)	Dr. Verma	no offering	no offering
MolGen 5632 (2 cr) Insect Molecular Genetics (Prereq: MolGen 4500 or 4606)	Dr. Seeger	no offering	no offering
MolGen 5650 (3 cr) Analysis and Interpretation of Biological Data (Prereqs: Math 1149 or 1150, and 10 credit hrs of life science courses at the 3000 level or higher)	Dr. Booton	no offering	no offering
MolGen 5700 (3 cr) Systems of Genetic Analysis (Prereqs: 5607 and 5608; this is a class designed for 1 st year grad students. Talk to your advisor!)	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 1 st year grad students. Talk to your advisor!)	Drs. Bisaro and Cr. Burd	no offering	no offering

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MolGen 5705 (2 cr) Advances in Cell Biology (Prereqs: 5607; this is a class designed for 1st year grad students. Talk to your advisor!)	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. Talk to your advisor!)	no offering	Drs. Dawes, Husbands, and Cole	no offering
MolGen 5735 (3 cr) Plant Biochemistry (Prereq: Biochem 4511)	no offering	Dr. Verma	no offering
MolGen 5800 (2 cr) Organelle Biology (Prereq: MolGen 4500 or 4606)	Dr. Hamel	no offering	no offering

COURSES INTENDED ONLY FOR NON-MAJORS

	Autumn 2020	Spring 2021	Summer 2021
MolGen 4500/E (3 or 4 cr) General Genetics (Prereq: Bio1113 and 3 additional cr hrs in Biological Sciences)	3 offerings planned	2 offerings planned	1 offering planned
Molgen 4501 (1 cr) General Genetics Laboratory (Prereq: MolGen 4500 or 4500E, or permission of instructor)	2 offerings planned	2 offerings planned	no offering
Molgen 4502 (2 cr) Expanded General Genetics Laboratory (Prereq: MolGen 4500 or 4500E, or permission of instructor)	no offering	no offering	no offering
MolGen 4700 (3 cr) Molecular Cell and Developmental Biology NOTE: this class is MAY BE an appropriate elective for Molgen majors IF AND ONLY IF they have advisor permission BEFORE registering (Prereqs: MolGen 4500 or 4606)	no offering	Drs. Fisk and Seeger	no offering