

Schedule of Molecular Genetics Courses that Support the Molecular Genetics Major and Minor

Autumn 2015	Spring 2016	May or Summer 2016
CORE COURSES		
MolGen 4606 (4 cr) <i>Molecular Genetics</i> Drs. Cole and Singh (Prereq: Bio 1113)	MolGen 4606 (4 cr) <i>Molecular Genetics</i> Dr. Chamberlin (Prereq: Bio 1113)	
MolGen 5601 (4 cr) <i>Eukaryotic Molecular Genetics Lab</i> Drs. Slotkin and Wu (Prereq: 4606)	MolGen 5602 (4 cr) <i>Eukaryotic Cell and Developmental Biology Lab</i> Dr. Seeger (Prereq: 4606)	MolGen 5601 (3 cr) (May) <i>Eukaryotic Molecular Genetics Lab</i> Dr. Park (Prereq: 4606)
MolGen 5607 (3 cr)/5607E (4 cr) <i>Cell Biology</i> Drs. Herman and Meier (Prereq: 4606)	MolGen 5608 (3 cr)/5608E (4 cr) <i>Genes and Development</i> Drs. Dobritsa and Weinstein (Prereq: 4606)	
MolGen 5645 (2 cr) <i>Quantitative, Population, and Evolutionary Genetics</i> Dr. Seeger (Prereq: 4606)		
Biochem 4511 (4 cr) <i>Introduction to Biological Chemistry</i>	Biochem 4511 (4 cr) <i>Introduction to Biological Chemistry</i>	Biochem 4511 (4 cr) (Su) <i>Introduction to Biological Chemistry</i>
ELECTIVES		
MolGen 2220H (1 cr) <i>Introduction to Molecular Life Sciences: Research Opportunities and Career Options</i> Dr. A. Hopper (Prereq: Bio 1113)	MolGen 2220H (1 cr) <i>Introduction to Molecular Life Sciences: Research Opportunities and Career Options</i> Dr. A. Hopper (Prereq: Bio 1113)	
MolGen 3300 (3 cr) <i>General Plant Biology</i> Drs. Lamb and Verma (Prereq: Bio 1113)	MolGen 3300 (3 cr) <i>General Plant Biology</i> Drs. Lamb and Verma (Prereq: Bio 1113)	
MolGen 3436 (3 cr) <i>Introductory Plant Physiology</i> Drs. Alonso and Somers (Prereq: Bio 1113)	MolGen 4591S (1 cr) <i>DNA Fingerprinting Workshop</i> Dr. Bird (Prereq: MG 4606)	

<p>MolGen 5630 (3 cr) <i>Plant Physiology</i> Drs. Somers and Verma (Prereq: 4606 and 3300)</p>	<p>MolGen 5300 (2 cr) <i>Cancer Genetics</i> Drs. Burd and Burd (Prereqs: 4606, and 5607 recommended)</p>	
<p>MolGen 5632 (2 cr) <i>Insect Molecular Genetics</i> Dr. Seeger (Prereq: 4606)</p>	<p>MolGen 5623 (2 cr) <i>Genetics and Genomics</i> Drs. Amacher and Hollick (Prereq: 4606, 5607, and 5608)</p>	
<p>MolGen 5650 (3 cr) <i>Analysis and Interpretation of Biological Data</i> Dr. Booton (Prereqs: Math 1149 or 1150, and 10 credit hrs of life science courses at the 3000 level or higher)</p>	<p>MolGen 5705 (2 cr) <i>Advances in Cell Biology</i> Drs. Meier, Osmani, Park, and Wu (Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)</p>	
<p>MolGen 5700 (3 cr) <i>Systems of Genetic Analysis</i> Drs. J. Hopper, Slotkin, Weinstein, and Wharton (Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)</p>	<p>MolGen 5715 (2 cr) <i>Developmental Genetics</i> Drs. Amacher, Verma, and Wharton (Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)</p>	
<p>MolGen 5701 (4 cr) <i>DNA Transactions and Gene Regulation</i> Drs. Bisaro and J. Hopper (Prereqs: 4606 and Biochem 4511; this is a class designed for 1st year grad students)</p>	<p>MolGen 5733 (2 cr) <i>Human Genetics</i> Drs. Burghes and Prior (Prereqs: 4606 and senior standing)</p>	
<p>MolGen 5796 (1 cr) <i>Current Topics in Signal Transduction</i> Dr. Doseff (Prereqs: 5607 and 5608)</p>	<p>MolGen 5735 (3 cr) <i>Plant Biochemistry</i> Drs. Alonso and Hamel (Prereq: Biochem 4511)</p>	
<p>MolGen 5800 (2 cr) <i>Organelle Biology</i> Dr. Hamel (Prereqs: 4606, and 5607 recommended)</p>		
<p>Approved electives from other departments are also offered. These include: BIOCHEM 5621; EEOB 4520, 6310; MICRO 4130, 5161H, 6080; NEURO 4050; and PSYCH 5602. Check with your advisor about other potential electives from outside of Molecular Genetics.</p>		