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

<table>
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<tr>
<th>Autumn 2015</th>
<th>Spring 2016</th>
<th>May or Summer 2016</th>
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<tr>
<td><strong>CORE COURSES</strong></td>
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</table>
| MolGen 4606 (4 cr)  
*Molecular Genetics*  
Drs. Cole and Singh  
(Prereq: Bio 1113) | MolGen 4606 (4 cr)  
*Molecular Genetics*  
Dr. Chamberlin  
(Prereq: Bio 1113) | |
| MolGen 5601 (4 cr)  
*Eukaryotic Molecular Genetics Lab*  
Drs. Slotkin and Wu  
(Prereq: 4606) | MolGen 5602 (4 cr)  
*Eukaryotic Cell and Developmental Biology Lab*  
Dr. Seeger  
(Prereq: 4606) | MolGen 5601 (3 cr) (May)  
*Eukaryotic Molecular Genetics Lab*  
Dr. Park  
(Prereq: 4606) |
| MolGen 5607 (3 cr)/5607E (4 cr)  
*Cell Biology*  
Drs. Herman and Meier  
(Prereq: 4606) | MolGen 5608 (3 cr)/5608E (4 cr)  
*Genes and Development*  
Drs. Dobritsa and Weinstein  
(Prereq: 4606) | |
| MolGen 5645 (2 cr)  
*Quantitative, Population, and Evolutionary Genetics*  
Dr. Seeger  
(Prereq: 4606) | | |
| Biochem 4511 (4 cr)  
*Introduction to Biological Chemistry* | Biochem 4511 (4 cr)  
*Introduction to Biological Chemistry* | Biochem 4511 (4 cr) (Su)  
*Introduction to Biological Chemistry* |
| **ELECTIVES** | | |
| MolGen 2220H (1 cr)  
*Introduction to Molecular Life Sciences: Research Opportunities and Career Options*  
Dr. A. Hopper  
(Prereq: Bio 1113) | MolGen 2220H (1 cr)  
*Introduction to Molecular Life Sciences: Research Opportunities and Career Options*  
Dr. A. Hopper  
(Prereq: Bio 1113) | |
| MolGen 3300 (3 cr)  
*General Plant Biology*  
Drs. Lamb and Verma  
(Prereq: Bio 1113) | MolGen 3300 (3 cr)  
*General Plant Biology*  
Drs. Lamb and Verma  
(Prereq: Bio 1113) | |
| MolGen 3436 (3 cr)  
*Introductory Plant Physiology*  
Drs. Alonso and Somers  
(Prereq: Bio 1113) | MolGen 4591S (1 cr)  
*DNA Fingerprinting Workshop*  
Dr. Bird  
(Prereq: MG 4606) | |
MolGen 5630 (3 cr)  
*Plant Physiology*  
Drs. Somers and Verma  
(Prereq: 4606 and 3300)

MolGen 5300 (2 cr)  
*Cancer Genetics*  
Drs. Burd and Burd  
(Prereqs: 4606, and 5607 recommended)

MolGen 5632 (2 cr)  
*Insect Molecular Genetics*  
Dr. Seeger  
(Prereq: 4606)

MolGen 5623 (2 cr)  
*Genetics and Genomics*  
Drs. Amacher and Hollick  
(Prereq: 4606, 5607, and 5608)

MolGen 5650 (3 cr)  
*Analysis and Interpretation of Biological Data*  
Dr. Booton  
(Prereqs: Math 1149 or 1150, and 10 credit hrs of life science courses at the 3000 level or higher)

MolGen 5705 (2 cr)  
*Advances in Cell Biology*  
Drs. Meier, Osmani, Park, and Wu  
(Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)

MolGen 5700 (3 cr)  
*Systems of Genetic Analysis*  
Drs. J. Hopper, Slotkin, Weinstein, and Wharton  
(Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)

MolGen 5715 (2 cr)  
*Developmental Genetics*  
Drs. Amacher, Verma, and Wharton  
(Prereqs: 5607 and 5608; this is a class designed for 1st year grad students)

MolGen 5701 (4 cr)  
*DNA Transactions and Gene Regulation*  
Drs. Bisaro and J. Hopper  
(Prereqs: 4606 and Biochem 4511; this is a class designed for 1st year grad students)

MolGen 5733 (2 cr)  
*Human Genetics*  
Drs. Burghes and Prior  
(Prereqs: 4606 and senior standing)

MolGen 5796 (1 cr)  
*Current Topics in Signal Transduction*  
Dr. Doseff  
(Prereqs: 5607 and 5608)

MolGen 5735 (3 cr)  
*Plant Biochemistry*  
Drs. Alonso and Hamel  
(Prereq: Biochem 4511)

MolGen 5800 (2 cr)  
*Organelle Biology*  
Dr. Hamel  
(Prereqs: 4606, and 5607 recommended)

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.