# Genetics, PhD

## Academic Plans

### Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

### Genetics, PhD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMED:5207</td>
<td>Principles of Molecular and Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>GENE:6150</td>
<td>Genetic Analysis of Biological Systems</td>
<td>3</td>
</tr>
<tr>
<td>GENE:6210</td>
<td>Seminars in Genetics</td>
<td>1</td>
</tr>
<tr>
<td>GENE:7301</td>
<td>Graduate Research in Genetics</td>
<td>8</td>
</tr>
<tr>
<td>Core Genetics course</td>
<td></td>
<td>3 - 4</td>
</tr>
<tr>
<td>Elective course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### First Year

#### Fall

- BMED:5207 Principles of Molecular and Cellular Biology 3
- GENE:6150 Genetic Analysis of Biological Systems 3
- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 8

#### Spring

- GENE:6200 Special Topics in Genetics 1
- GENE:7301 Graduate Research in Genetics 8
- Core Genetics course 3 - 4
- Elective course 3

#### Hours

| Total Hours | 15-16 |

### Second Year

#### Fall

- BMED:7270 Scholarly Integrity/Responsible Conduct of Research I 0
- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 11
- Elective course 3

#### Spring

- BMED:7271 Scholarly Integrity/Responsible Conduct of Research II 0
- GENE:6200 Special Topics in Genetics 1
- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 11
- Elective course 2

#### Hours

| Total Hours | 15 |

### Third Year

#### Fall

- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 1

#### Hours

| Total Hours | 2 |

### Spring

- GENE:6200 Special Topics in Genetics 1
- GENE:6210 Seminars in Genetics 1

#### Hours

| Total Hours | 2 |

### Fourth Year

#### Fall

- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 1

#### Hours

| Total Hours | 2 |

### Spring

- GENE:6200 Special Topics in Genetics 1
- GENE:6210 Seminars in Genetics 1

#### Exam: Doctoral Final Exam 2

#### Hours

| Total Hours | 2 |

### Fifth Year

#### Fall

- GENE:6210 Seminars in Genetics 1
- GENE:7301 Graduate Research in Genetics 1

#### Hours

| Total Hours | 2 |

### Spring

- GENE:6200 Special Topics in Genetics 1
- GENE:6210 Seminars in Genetics 1

#### Exam: Doctoral Final Exam 2

#### Hours

| Total Hours | 2 |

### Third Year Total Hours 72-73

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**a** Students must complete specific requirements in the University of Iowa Graduate College after program admission. Refer to the Graduate College website and the Manual of Rules and Regulations for more information.

**b** Graduate College program GPA is comprised of all courses that are approved degree requirements. If a student takes more than the minimum required number of semester hours to complete the degree, but all courses taken are eligible to count toward the degree, those courses will be included in the Graduate College program GPA.

**c** If needed, adjust the number of semester hours for GENE:7301 so total enrollment equals 15 s.h.

**d** Counts toward the 5 s.h. seminar degree requirement.

**e** Choose from: BIOL:3172, BIOL:3713, BIOL:4333, GENE:7191, or take an equivalent course with advisor approval.

**f** Take 8 s.h. from coursework in molecular and microbial genetics, cell and development genetics, human genetics, or computational genetics. Work with faculty advisor to select appropriate courses from approved list.

**g** Program seminar followed by the dissertation defense.