Graduate Degree Plan
PhD in **Chemical, Physical, & Structural Biology**
Students Starting Academic Year: 2021-2022

**General Degree Requirements:**
- Completion of at least 180 term hours
- At least 30 of those term hours must be in Didactic courses
- Completion of at least three terms of Research Rotation
- Students must maintain satisfactory academic progress as detailed in the Student Handbook

### Year One Requirements:

#### Term 1:
- **GS-GS-6600**  Foundations A: Molecules to Systems 3 (Didactic) (two-term course)
- **GS-GS-6400**  Foundations B: Biostatistics 2 (Didactic) (two-term course)
- **GS-CP-6304**  Molecular Biophysics 1 3 (Didactic)
- **GS-CP-5101**  Thinking Like a Scientist 1 1
- **GS-GS-5101**  Responsible Conduct of Research 1 1
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP-5030**  Research Rotation 1

Total to Date: 12 (8) 12 (8)

#### Term 2:
- **GS-GS-6600**  Foundations A: Molecules to Systems 3 (Didactic) (two-term course)
- **GS-GS-6400**  Foundations B: Biostatistics 2 (Didactic) (two-term course)
- **GS-CP-6202**  Thinking Like a Scientist 2 2 (Didactic)
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP-5030**  Research Rotation ± Electives 4

Total: 12 (7) 24 (15)

#### Term 3:
- **GS-CP-6306**  Thinking Like a Scientist 3 3 (Didactic)
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP-5030**  Research Rotation ± Electives 8

Total: 12 (3) 36 (18)

#### Term 4:
- **GS-CP-6307**  Thinking Like a Scientist 4 3 (Didactic)
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP**  Research Hours ± Electives 8

Total: 12 (3) 48 (21)

#### Term 5:
- **GS-CP**  Research Hours ± Electives 12

Total: 12 60 (21)

### Year Two Requirements:

#### Term 1:
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP**  Research Hours ± Electives 11

Total to Date: 12 72 (21)

#### Term 2:
- **GS-GS-5102**  Responsible Conduct of Research 2 1
- **GS-CP-5100**  Student Research Seminar 1
- **GS-CP**  Research Hours ± Electives 10

Total: 12 84 (21)
Term 3:

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<th>Course Code</th>
<th>Course Name</th>
<th>Research Hours</th>
<th>Total to Date</th>
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<td>Student Research Seminar</td>
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<td>Total: 12</td>
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Student’s Thesis Advisory Committee must be appointed by the end of Term 3 in the student’s second year of enrollment.

Term 4:

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Total: 12

Term 5:

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<td>Research Hours ± Electives</td>
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<td>120 (21)</td>
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Nine additional didactic hours are required for a total of thirty (30)

**Qualifying Exam Requirement:**
- Must be taken by the end of the second year of enrollment
- Student must complete all prerequisite activities defined by their program before taking the exam

**Course Requirements beyond Year Two:**

Year 3, Term 3: GS-GS-5103 Responsible Conduct of Research 3 | 1

Year 4, Term 3: GS-GS-5104 Responsible Conduct of Research 4 | 1

**Recurring requirements through Graduation:**

Terms 1-4: GS-CP-5100 Student Research Seminar | As required*

Terms 1-5: GS-CP-5050 Dissertation | As required*

*Students shall enroll in the number of credits of Dissertation needed to be enrolled full-time (12 credits) each term through Graduation.

**Research Course Work:**

- GS-CP-5010 Readings
- GS-CP-5030 Research Rotation
- GS-CP-5040 Special Projects
- GS-CP-5050 Dissertation

**Suggested Electives**

**Chemical Biology/Pharmacology Emphasis**

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<th>Credits</th>
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<tr>
<td>GS-CP-6205</td>
<td>Chemical Biology</td>
<td>2(D)</td>
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<tr>
<td>GS-CP-6302</td>
<td>Chemical Concepts in Chemical Biology</td>
<td>3(D)</td>
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<td>GS-CP-6206</td>
<td>Drug Discovery</td>
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<td>GS-CP-6208</td>
<td>Pharmacology Concepts in Drug Discovery &amp; Development</td>
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**Structural Biology/Biophysics Emphasis**

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<td>GS-CP-6301</td>
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<td>GS-CP-6207</td>
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*Students may select electives from open course options in all graduate programs.

Courses may be viewed in the AY21 Graduate School Bulletin