CHEMISTRY AND BIOCHEMISTRY, PH.D.

The Ph.D. in Chemistry and Biochemistry requires 56 credit hours in advanced biochemical and medicinal chemistry course work and a dissertation culminating from extensive laboratory research experience carried out under the direction of a faculty advisor. Additional course work is offered in specialized areas such as synthetic chemistry, bioanalytical chemistry, and computational chemistry. The student gains experience in professional speaking by giving public oral scientific presentations through the departmental seminar program. The successful candidate will be well prepared for careers in biotechnology, pharmaceutical or medical research, or academia.

For information regarding deadlines and requirements for admission, please see the Guide to Graduate Admissions (https://grs.uncg.edu/prospective/guide/).

In addition to the application materials required by The Graduate School, applicants must submit a one-page personal statement by the appropriate deadline to be considered for Fall or Spring admission.

A minimum of a B.S. in Chemistry, Biochemistry, or related field is required.

Degree Program Requirements

Required: 56 credit hours

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHE 720</td>
<td>Introduction to Graduate Research</td>
<td>1</td>
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<tr>
<td>CHE 780</td>
<td>Research Problems in Chemistry and Biochemistry</td>
<td>12-18</td>
</tr>
<tr>
<td>CHE 799</td>
<td>Dissertation Research in Chemistry and Biochemistry</td>
<td>12-18</td>
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* General information about milestones for doctoral programs is available in Section III (https://catalog.uncg.edu/academic-regulations-policies/graduate-policies/#sectioniiisummaryofgraduateschoolregulationsforallcertificatesanddegreestext) of the Graduate Policies (https://catalog.uncg.edu/academic-regulations-policies/graduate-policies/page-in-the-university-catalog) page in the University Catalog. For information about how milestones are accomplished for a specific program, please refer to the doctoral program’s handbook.

Required Milestones*

- Residency (Immersion)
- Plan of Study
- Research Competency
- Comprehensive Exam (Written & Oral)
- Dissertation Proposal
- Admission to Candidacy
- Dissertation Defense
- Filing the Final Approved Dissertation

* A minimum of 12 credits in CHE 799 is required.

** In approved (by the Department Graduate Studies Committee and student’s research advisor) elective graduate courses in chemistry, biology, mathematics or physics. Students who plan to pursue employment in industry are encouraged to enroll in CHE 790 Chemistry and Biochemistry Internship.