

# CHEMISTRY, A.S.-B.A.

This is a suggested course plan. It is highly recommended that you meet regularly with your academic advisor to determine your course selection and progress toward graduation.

Students who transfer to UNC under the Comprehensive Articulation Agreement (CAA) have all lower-level General Education requirements completed, but must complete these requirements through transfer or UNC coursework: Global Language, Research and Discovery, Lifetime Fitness, Communication Beyond Carolina, Campus Life Experience, and, where applicable, Supplemental General Education. Students who do not transfer in under the CAA should work closely with their advisor to determine which requirements apply to them for the IDEAs in Action General Education curriculum (<http://catalog.unc.edu/undergraduate/ideas-in-action/>).

This catalog also includes a complete list of requirements for the Chemistry major, B.A. degree. (<http://catalog.unc.edu/undergraduate/programs-study/chemistry-major-ba/#requirementstext>)

## North Carolina Community College

### UGETC Curriculum

| Code               | Title  | Hours     |
|--------------------|--|-----------|
| UGETC              | English composition (ENG 111 + ENG 112 = UNC ENGL 105)   | 6         |
| UGETC              | Humanities/Fine Arts/Communication (2 courses from at least 2 different disciplines; see UGETC list below) | 6         |
| PSY 150            | General Psychology (UNC PSYC 101) <sup>3</sup>   | 3         |
| UGETC              | Social/Behavioral Sciences (1 course from a discipline other than psychology; see UGETC list below)        | 3         |
| MAT 271            | Calculus I (UNC MATH 231 + MATH 129P + MATH 110P) <sup>1</sup>   | 4         |
| MAT 272            | Calculus II (UNC MATH 232 + MATH 110P) <sup>1</sup>  | 4         |
| CHM 151            | General Chemistry I (UNC CHEM 101/101L) <sup>1</sup>   | 4         |
| CHM 152            | General Chemistry II (UNC CHEM 102/102L) <sup>1</sup>  | 4         |
| <b>Total Hours</b> |  | <b>34</b> |

### Additional General Education Courses

| Code               | Title   | Hours     |
|--------------------|---|-----------|
| XXX 111            | Foreign Language Level 1                                      | 3         |
| XXX 112            | Foreign Language Level 2                                      | 3         |
| XXX 211            | Foreign Language Level 3 <sup>4</sup>                         | 3         |
| BIO 111            | General Biology I (UNC BIOL 101/101L + BIOL 103) <sup>1</sup> | 3         |
| <b>Total Hours</b> |   | <b>12</b> |

### Other Required Hours

| Code               | Title   | Hours     |
|--------------------|---|-----------|
| ACA 122            | College Transfer Success (UNC GENR ---)                 | 1         |
| CHM 251            | Organic Chemistry I (UNC CHEM 261/262L) <sup>1,5</sup>  | 4         |
| CHM 252            | Organic Chemistry II (UNC CHEM 262/262L) <sup>1,5</sup> | 4         |
| Electives          |   | 6         |
| <b>Total Hours</b> |   | <b>15</b> |

| Code                                 | Title | Hours     |
|--------------------------------------|-------|-----------|
| <b>Total Community College Hours</b> |       | <b>61</b> |

<sup>1</sup> Required in the major.

<sup>2</sup> Counts in the major.

<sup>3</sup> PSYC 101 satisfies the Life Sciences requirement.

<sup>4</sup> All NC Community College Language courses numbered 211 are approved to transfer to UNC-Chapel Hill as a course that completes the GBLB-LANG IDEAs in Action requirement.

<sup>5</sup> IDEAs In Action Requirements: CHEM 262L fulfills RESEARCH.


## UNC-Chapel Hill

### Semester 5

| Code                                      | Title  | Hours     |
|---|--|-----------|
| CHEM 241 & 241L                           | Modern Analytical Methods for Separation and Characterization and Laboratory in Separations and Analytical Characterization of Organic and Biological Compounds <sup>1,H</sup> | 4         |
| LFIT ---                                  | Lifetime Fitness   | 1         |
| Minor course #1 or Sup Ed course #2       |  | 3         |
| Electives or IDEAs in Action Requirements |  | 6         |
| <b>Total Hours</b>                        |  | <b>14</b> |



H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

### Semester 6

| Code                                      | Title  | Hours     |
|---|--|-----------|
| CHEM 251                                  | Introduction to Inorganic Chemistry <sup>1</sup>   | 3         |
| PHYS 114                                  |  General Physics I: For Students of the Life Sciences <sup>1,F</sup> | 4         |
| Minor course #2 or Sup Ed course #3       |  | 3         |
| Electives or IDEAs in Action Requirements |  | 6         |
| <b>Total Hours</b>                        |  | <b>16</b> |

F FY-Launch class sections may be available. A FY-Launch section fulfills the same requirements as a standard section of that course, but also fulfills the FY-SEMINAR/FY-LAUNCH First-Year Foundations requirement. Students can search for FY-Launch sections in ConnectCarolina using the FY-LAUNCH attribute.

### Semester 7

| Code                                    | Title   | Hours     |
|---|---|-----------|
| CHEM 430                                | Introduction to Biological Chemistry <sup>1,H</sup>   | 3         |
| CHEM 550L                               |  Synthetic Chemistry Laboratory I <sup>1</sup>                        | 2         |
| PHYS 115                                |  General Physics II: For Students of the Life Sciences <sup>1,F</sup> | 4         |
| Minor course #3 or elective             |   | 3         |
| Elective or IDEAs in Action Requirement |   | 3         |
| <b>Total Hours</b>                      |   | <b>15</b> |

H Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

F FY-Launch class sections may be available. A FY-Launch section fulfills the same requirements as a standard section of that course, but also fulfills the FY-SEMINAR/FY-LAUNCH First-Year Foundations requirement. Students can search for FY-Launch sections in ConnectCarolina using the FY-LAUNCH attribute.

### Semester 8

| Code                                    | Title  | Hours     |
|---|--|-----------|
| CHEM 480                                | Introduction to Biophysical Chemistry <sup>1</sup> | 3         |
| or CHEM 481                             | Physical Chemistry I                               |           |
| CHEM ---                                | Chemistry elective <sup>1,2</sup>                  | 3         |
| Minor course #4 or elective             |  | 3         |
| Minor course #5 or elective             |  | 3         |
| Elective or IDEAs in Action Requirement |  | 3         |
| <b>Total Hours</b>                      |  | <b>15</b> |

<sup>1</sup> Required in the major.

<sup>2</sup> Chemistry electives include: CHEM 395, CHEM 420, CHEM 421, CHEM 431, CHEM 432, CHEM 441, CHEM 444, CHEM 446, CHEM 448, CHEM 450, CHEM 460, and CHEM 530L.

### UGETC Course List (A.S. Curriculum)

| Code   | Title  | Hours    |
|--|--|----------|
| <b>English Composition (two courses)</b>   |  | <b>6</b> |
| ENG 111  | Writing & Inquiry <sup>1</sup>                                 |          |
| ENG 112  | Writing/Research in the Disciplines <sup>1</sup>               |          |
| <b>Humanities/Fine Arts (two courses from at least two different disciplines)</b>      |  | <b>6</b> |
| ART 111  | Art Appreciation (UNC GENR 111)                                |          |
| ART 114  | Art History Survey I (UNC ARTH 151)                            |          |
| ART 115  | Art History Survey II (UNC ARTH 152)                           |          |
| COM 120  | Introduction to Interpersonal Communication (UNC COMM 120), OR |          |
| COM 231  | Public Speaking (UNC COMM 113)                                 |          |
| DRA 111  | Theatre Appreciation (UNC DRAM 116)                            |          |
| ENG 231  | American Literature I (UNC ENGL 128) <sup>2</sup>              |          |
| ENG 232  | American Literature II (UNC ENGL 128) <sup>2</sup>             |          |
| ENG 241  | British Literature I (UNC ENGL 120) <sup>2</sup>               |          |
| ENG 242  | British Literature II (UNC ENGL 121) <sup>2</sup>              |          |
| MUS 110  | Music Appreciation (UNC MUSC 141)                              |          |
| MUS 112  | Introduction to Jazz (UNC MUSC 145)                            |          |
| PHI 215  | Philosophical Issues (UNC PHIL 101) <sup>2</sup>               |          |
| PHI 240  | Introduction to Ethics (UNC PHIL 160) <sup>2</sup>             |          |
| <b>Social/Behavioral Science (two courses from at least two different disciplines)</b> |  | <b>6</b> |
| ECO 251  | Principles of Microeconomics (UNC GENR 119) <sup>3</sup>       |          |
| ECO 252  | Principles of Microeconomics (UNC GENR 119) <sup>3</sup>       |          |
| HIS 111  | World Civilizations I (UNC GENR 113)                           |          |
| HIS 112  | World Civilizations II (UNC GENR 113)                          |          |
| HIS 131  | American History I (UNC HIST 127)                              |          |
| HIS 132  | American History II (UNC HIST 128)                             |          |
| POL 120  | American Government (UNC POLI 100)                             |          |
| PSY 150  | General Psychology (UNC PSYC 101)                              |          |
| SOC 210  | Introduction to Sociology (UNC SOCI 101)                       |          |

### Mathematics (select two courses) 8

|  |  |
|--|--|
| MAT 171  | Precalculus Algebra (UNC MATH 110P)                              |
| MAT 172  | Pre-calculus Trigonometry (UNC MATH 130 + MATH 110P)             |
| MAT 263  | Brief Calculus (UNC MATH 152 + MATH 110P)                        |
| MAT 271  | Calculus I (UNC MATH 231 + MATH 129P + MATH 110P)                |
| MAT 272  | Calculus II (UNC MATH 232 + MATH 110P)                           |
| <b>Natural Sciences (select 8 SCH from the following courses): 8</b> |  |
| AST 151/151A   | General Astronomy I and Lab (UNC ASTR 101/100L)                  |
| BIO 110  | Principles of Biology (UNC GENR 116)                             |
| BIO 111 & 112  | General Biology I & II (UNC BIOL 101/101L + BIOL 103 + BIOL 104) |
| CHM 151 & 152  | General Chemistry I & II (UNC CHEM 101/101L +CHEM 102/102L)      |
| GEL 111  | Introduction Geology (UNC GEOL 101/101L)                         |
| PHY 110/110A   | Conceptual Physics and Lab (UNC PHYS 101)                        |
| PHYS 151 & 152   | College Physics I & II (UNC PHYS 114 + PHYS 115)                 |
| PHYS 251 & 252   | General Physics I & II (UNC PHYS 118 + PHYS 119)                 |
| <b>Total Hours</b>   | <b>34</b>  |

IDEAs In Action Requirements not covered by the North Carolina Comprehensive Articulation Agreement that could be completed at the Community College:

COM 231 (UNC COMM 113) can fulfill COMMBEYOND; COM 120 (UNC COMM 120), CHM 251<sup>2</sup> (UNC CHEM 261 + CHEM 262L) or CHM 252<sup>2</sup> (UNC CHEM 262 + CHEM 262L) can fulfill RESEARCH, and PED 110 (LFIT 998) can fulfill LIFE-FIT.

<sup>1</sup> Students who complete both ENG 111 and 112 receive credit for UNC ENGL 100 + ENGL 105.

<sup>2</sup> Course may have prerequisite(s). Consult the North Carolina Community College Combined Course Library (<https://www.nccommunitycolleges.edu/academic-programs/combined-course-library/>) for most current information.

<sup>3</sup> ECO 251 + 252 = UNC ECON 101 + UNC GENR 119.

### Additional Resources

#### Applying to Carolina

- The Office of Undergraduate Admissions (<https://admissions.unc.edu/apply/types-of-applications/transfer/>) provides information about the application process for transfer students.

#### Advising and Community College Course Selection

- For UGETC, Pre-Major, Elective, or GEC course options, please refer to the Comprehensive Articulation Agreement transfer course list (<https://www.nccommunitycolleges.edu/academic-programs/college-transferarticulation-agreements/comprehensive-articulation-agreement-caa/>).
- Students should work with their community college academic advisor to ensure appropriate course selection for AA/AS degree completion.

#### Additional Resources

- To find out how your N.C. community college coursework will transfer to UNC, please view the transfer credit list ([https://tes.collegesource.com/publicview/TES\\_publicview01.aspx?rid=ff81c5a2-3ec7-4b31-](https://tes.collegesource.com/publicview/TES_publicview01.aspx?rid=ff81c5a2-3ec7-4b31-)

a7fb-04e2fd5f0345&aid=ca8ebc64-42ca-4a2d-b16b-f8f68bbb6767)  
for your community college campus.