

Cleveland State University  
College of Arts and Sciences  
Bachelor of Science in Chemistry  
(American Chemical Society Certified Track)

**First Year**

| Fall Semester                           | Credits   | Major | Gen Ed | Spring Semester                      | Credits   | Major | Gen Ed |
|---|-----------|-------|--------|--------------------------------------|-----------|-------|--------|
| CHM 261/266 General Chemistry I/Lab     | 4         | X     | NS     | CHM 262/267 General Chemistry II/Lab | 4         | X     | NS     |
| MTH 181 Calculus I                      | 4         | X     | M/QL   | MTH 182 Calculus II                  | 4         | X     | M/QL   |
| ENG 101 English I                       | 3         |       | W/C    | ENG 102 English II                   | 3         |       | W/C    |
| ASC 101 Introduction to University Life | 1         |       | INTRO  | Arts & Humanities Elective**         | 3         |       | A&H    |
| Social Science Elective**               | 3         |       | SS     |                                      |           |       |        |
|   |           |       |        |                                      |           |       |        |
| <b>Semester Total</b>                   | <b>15</b> |       |        | <b>Semester Total</b>                | <b>14</b> |       |        |

**Second Year**

| Fall Semester                             | Credits   | Major | Gen Ed | Spring Semester                            | Credits   | Major | Gen Ed |
|---|-----------|-------|--------|--|-----------|-------|--------|
| CHM 331/336 Organic Chemistry I/Lab       | 4         | X     |        | CHM 332/337 Organic Chemistry II/Lab       | 4         | X     |        |
| MTH 281 Multivariable Calculus            | 4         | X     |        | PHY 242 University Physics II (or PHY 244) | 5         | X     | NS     |
| PHY 241 University Physics I (or PHY 243) | 5         | X     | NS     | CHM 301 Research Methods in Chemistry      | 2         | X     | WAC    |
| General Elective*                         | 3         |       |        | US Diversity Elective                      | 3         |       | DIV    |
|   |           |       |        |  |           |       |        |
| <b>Semester Total</b>                     | <b>16</b> |       |        | <b>Semester Total</b>                      | <b>14</b> |       |        |

**Third Year**

| Fall Semester                    | Credits   | Major | Gen Ed | Spring Semester                        | Credits   | Major | Gen Ed |
|----------------------------------|-----------|-------|--------|--|-----------|-------|--------|
| CHM 321 Physical Chemistry I     | 3         | X     |        | CHM 322 Physical Chemistry II          | 3         | X     |        |
| CHM 311 Analytical Chemistry     | 3         | X     |        | CHM 412 Advanced Instrumental Analysis | 3         | X     |        |
| CHM 316 Analytical Chemistry Lab | 2         | X     |        | CHM 416 Instrumental Analysis Lab      | 3         | X     | WAC    |
| CHM 411 Instrumental Analysis    | 3         | X     |        | CHM 431 Advanced Organic Chemistry     | 2         | X     |        |
| CHM 426 Physical Chemistry Lab I | 3         | X     | WAC    | CHM 427 Physical Chemistry Lab II      | 3         | X     |        |
|                                  |           |       |        | CHM Elective (300/400 level)           | 3         | X     |        |
| <b>Semester Total</b>            | <b>14</b> |       |        | <b>Semester Total</b>                  | <b>17</b> |       |        |

**Fourth Year**

| Fall Semester  | Credits   | Major | Gen Ed | Spring Semester                 | Credits   | Major | Gen Ed |
|--|-----------|-------|--------|---------------------------------|-----------|-------|--------|
| CHM 402 Biochemistry I   | 3         | X     |        | CHM 403 Biochemistry II         | 3         | X     |        |
| CHM 441 Inorganic Chemistry  | 3         | X     |        | CHM 446 Inorganic Chemistry Lab | 2         | X     |        |
| CHM 471 Faculty Colloquium   | 1         | X     |        | CHM 472 Student Colloquium      | 1         | X     | CAP    |
| CHM Elective (300/400 level)   | 3         | X     |        | CHM 489 Senior Research         | 3         | X     |        |
| General Elective*  | 2         |       |        | African American Experience     | 3         |       | DIV    |
| Arts & Humanities Elective**   | 3         |       | A&H    | Social Science Elective**       | 3         |       | SS     |
| <b>Apply for Spring graduation by the middle of this term</b>                                    |           |       |        |                                 |           |       |        |
| <b>Semester Total</b>  | <b>15</b> |       |        | <b>Semester Total</b>           | <b>15</b> |       |        |
| <b>Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)</b> |           |       |        |                                 |           |       |        |

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

\*Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

**University Notes:**

| Gen Ed Key:   |   |
|---|---|
| INTRO = Introduction to University Life (one course)              | SS = Social Sciences (two courses from different departments)**   |
| W/C = Writing/Composition (two courses; C or better required)     | A&H = Arts & Humanities (two courses from different departments)**  |
| M/QL = Mathematics/Quantitative Literacy (two courses)            | DIV = Social Diversity (two courses; one US Diversity and one African American Experience)                              |
| NS = Natural Sciences (two courses, one of which must have a lab) | WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required)               |
|   | CAP = Capstone  |
|   | ** of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME) |

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Cleveland State University  
College of Arts and Sciences  
Bachelor of Science in Chemistry  
(Pre-Professional Track)

**First Year**

| Fall Semester                           |           |       |        | Spring Semester                         |           |       |        |
|---|-----------|-------|--------|---|-----------|-------|--------|
|   | Credits   | Major | Gen Ed |   | Credits   | Major | Gen Ed |
| CHM 261/266 General Chemistry I/Lab     | 4         | X     | NS     | CHM 262/267 General Chemistry II/Lab    | 4         | X     | NS     |
| BIO 200/201 Introductory Biology I/Lab  | 4         | X     | NS     | BIO 202/203 Introductory Biology II/Lab | 4         | X     | NS     |
| ENG 101 English I                       | 3         |       | W/C    | ENG 102 English II                      | 3         |       | W/C    |
| ASC 101 Introduction to University Life | 1         |       | INTRO  | MTH 181 Calculus I                      | 4         | X     | M/QL   |
| STA 147 Statistics                      | 3         | X     | M/QL   |   |           |       |        |
|   |           |       |        |   |           |       |        |
| <b>Semester Total</b>                   | <b>15</b> |       |        | <b>Semester Total</b>                   | <b>15</b> |       |        |

**Second Year**

| Fall Semester                       |           |       |        | Spring Semester                       |           |       |        |
|-------------------------------------|-----------|-------|--------|---------------------------------------|-----------|-------|--------|
|                                     | Credits   | Major | Gen Ed |                                       | Credits   | Major | Gen Ed |
| CHM 331/336 Organic Chemistry I/Lab | 4         | X     |        | CHM 332/337 Organic Chemistry II/Lab  | 4         | X     |        |
| Arts & Humanities Elective**        | 3         |       | A&H    | Social Science Elective**             | 3         |       | SS     |
| PHY 221 College Physics I           | 5         | X     | NS     | PHY 222 College Physics II            | 5         | X     | NS     |
| General elective*                   | 2         |       |        | CHM 301 Research Methods in Chemistry | 2         | X     | WAC    |
|                                     |           |       |        |                                       |           |       |        |
| <b>Semester Total</b>               | <b>14</b> |       |        | <b>Semester Total</b>                 | <b>14</b> |       |        |

**Third Year**

| Fall Semester                           |           |       |        | Spring Semester                        |           |       |        |
|---|-----------|-------|--------|--|-----------|-------|--------|
|   | Credits   | Major | Gen Ed |  | Credits   | Major | Gen Ed |
| Arts & Humanities Elective **           | 3         |       | A&H    | BIO 310/311 Genetics & Recitation      | 4         | X     |        |
| CHM 310 Survey Analytical Chemistry     | 2         | X     |        | CHM 320 Survey of Physical Chemistry   | 3         | X     |        |
| CHM 315 Survey Analytical Chemistry Lab | 2         | X     |        | CHM 403 Biochemistry II                | 3         | X     |        |
| CHM 402 Biochemistry I                  | 3         | X     |        | Social Science Elective**              | 3         |       | SS     |
| BIO 308/309 Cell Biology/Lab            | 4         | X     |        | Writing Across the Curriculum Elective | 3         |       | WAC    |
|   |           |       |        |  |           |       |        |
| <b>Semester Total</b>                   | <b>14</b> |       |        | <b>Semester Total</b>                  | <b>16</b> |       |        |

**Fourth Year**

| Fall Semester  |           |       |        | Spring Semester                        |           |       |        |
|--|-----------|-------|--------|--|-----------|-------|--------|
|  | Credits   | Major | Gen Ed |  | Credits   | Major | Gen Ed |
| CHM 471 Faculty Colloquium   | 1         | X     |        | CHM 472 Student Colloquium             | 1         | X     | CAP    |
| BIO 416/417 Microbiology/Lab   | 5         | X     |        | CHM/BIO Elective (300/400 level)       | 3         | X     |        |
| CHM/BIO Elective (300/400 level)   | 3         | X     |        | African American Experience Elective   | 3         |       | DIV    |
| BIO 302/303 Animal Biology/Lab   | 4         | X     |        | US Diversity Elective                  | 3         |       | DIV    |
| CHM/BIO Elective (300/400 level)   | 3         | X     |        | Writing Across the Curriculum Elective | 3         |       | WAC    |
|  |           |       |        | CHM/BIO Elective (300/400 level)       | 3         | X     |        |
| <b>Apply for Spring graduation by the middle of this term</b>                                    |           |       |        |  |           |       |        |
| <b>Semester Total</b>  | <b>16</b> |       |        | <b>Semester Total</b>                  | <b>16</b> |       |        |
| <b>Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)</b> |           |       |        |  |           |       |        |

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

\*Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

**University Notes:**

|   |   |
|---|---|
| <b>Gen Ed Key:</b>  | SS = Social Sciences (two courses from different departments)**   |
| INTRO = Introduction to University Life (one course)  | A&H = Arts & Humanities (two courses from different departments)**  |
| W/C = Writing/Composition (two courses; C or better required)   | DIV = Social Diversity (two courses; one US Diversity and one African American Experience)                |
| M/QL = Mathematics/Quantitative Literacy (two courses)  | WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required) |
| NS = Natural Sciences (two courses, one of which must have a lab)   | CAP = Capstone  |
| ** of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME) |   |

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Cleveland State University  
College of Arts and Sciences  
Bachelor of Science in Chemistry  
(Pre-Professional Track with Concentration in Pharmaceutical Science)

**First Year**

| Fall Semester                           | Credits   | Major | Gen Ed | Spring Semester                         | Credits   | Major | Gen Ed |
|---|-----------|-------|--------|---|-----------|-------|--------|
| CHM 261/266 General Chemistry I/Lab     | 4         | X     | NS     | CHM 262/267 General Chemistry II/Lab    | 4         | X     | NS     |
| BIO 200/201 Introductory Biology I/Lab  | 4         | X     | NS     | BIO 202/203 Introductory Biology II/Lab | 4         | X     | NS     |
| ENG 101 English I                       | 3         |       | W/C    | ENG 102 English II                      | 3         |       | W/C    |
| ASC 101 Introduction to University Life | 1         |       | INTRO  | MTH 181 Calculus I                      | 4         | X     | M/QL   |
| STA 147 Statistics                      | 3         | X     | M/QL   |   |           |       |        |
|   |           |       |        |   |           |       |        |
| <b>Semester Total</b>                   | <b>15</b> |       |        | <b>Semester Total</b>                   | <b>15</b> |       |        |

**Second Year**

| Fall Semester                       | Credits   | Major | Gen Ed | Spring Semester                        | Credits   | Major | Gen Ed |
|-------------------------------------|-----------|-------|--------|--|-----------|-------|--------|
| CHM 331/336 Organic Chemistry I/Lab | 4         | X     |        | CHM 332/337 Organic Chemistry II/Lab   | 4         | X     |        |
| Social Science Elective**           | 3         |       | SS     | Arts & Humanities Elective**           | 3         |       | A&H    |
| PHY 221 College Physics I           | 5         | X     | NS     | PHY 222 College Physics II             | 5         | X     | NS     |
| US Diversity Elective               | 3         |       | DIV    | Writing Across the Curriculum Elective | 3         |       | WAC    |
|                                     |           |       |        |  |           |       |        |
| <b>Semester Total</b>               | <b>15</b> |       |        | <b>Semester Total</b>                  | <b>15</b> |       |        |

**Third Year**

| Fall Semester                           | Credits   | Major | Gen Ed | Spring Semester                     | Credits   | Major | Gen Ed |
|---|-----------|-------|--------|-------------------------------------|-----------|-------|--------|
| CHM 341 Pharmacology I                  | 3         | X     |        | CHM 342 Pharmacology II             | 3         | X     |        |
| CHM 351 Medicinal Chemistry I           | 3         | X     |        | CHM 352 Medicinal Chemistry II      | 3         | X     |        |
| CHM 310 Survey Analytical Chemistry     | 2         | X     |        | BIO 310/311 Genetics and Recitation | 4         | X     |        |
| CHM 315 Survey Analytical Chemistry Lab | 2         | X     |        | CHM 403 Biochemistry II             | 3         | X     |        |
| CHM 402 Biochemistry I                  | 3         | X     |        |                                     |           |       |        |
| Social Science Elective**               | 3         |       | SS     |                                     |           |       |        |
| <b>Semester Total</b>                   | <b>16</b> |       |        | <b>Semester Total</b>               | <b>13</b> |       |        |

**Fourth Year**

| Fall Semester  | Credits   | Major | Gen Ed | Spring Semester                      | Credits   | Major | Gen Ed |
|--|-----------|-------|--------|--------------------------------------|-----------|-------|--------|
| BIO 416/417 Microbiology/Lab   | 5         | X     |        | African American Experience Elective | 3         |       | DIV    |
| CHM 455 Biotechnology Techniques   | 3         | X     |        | CHM 471 Faculty Colloquium           | 1         | X     |        |
| CHM 457 Pharmaceutical Analysis Lab  | 3         | X     | CAP    | CHM 472 Student Colloquium           | 1         | X     | CAP    |
| CHM/BIO Elective (300/400 level)^  | 3         | X     |        | CHM/BIO Elective (300/400 level)^    | 3         | X     |        |
| Writing Across the Curriculum Elective   | 3         |       | WAC    | CHM/BIO Elective (300/400 level)^    | 3         | X     |        |
|  |           |       |        | Arts & Humanities Elective**         | 3         |       | A&H    |
| <b>Apply for Spring graduation by the middle of this term</b>                                    |           |       |        |                                      |           |       |        |
| <b>Semester Total</b>  | <b>17</b> |       |        | <b>Semester Total</b>                | <b>14</b> |       |        |
| <b>Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)</b> |           |       |        |                                      |           |       |        |

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

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\*Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.

^One of the CHM/BIO 300/400 level electives MUST also be an approved WAC course in order to satisfy the WAC-in-major requirement.

**University Notes:**

|  |   |
|--|---|
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|--|---|

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**Cleveland State University**  
**College of Arts and Sciences**  
 Bachelor of Science in Chemistry  
 CSUteach (license in Education)

| <b>First Year</b>                      |         |       |         |        |   |         |       |         |        |  |  |
|--|---------|-------|---------|--------|---|---------|-------|---------|--------|--|--|
| Fall Semester                          | Credits | Major | License | Gen Ed | Spring Semester                           | Credits | Major | License | Gen Ed |  |  |
| ASC 101: Intro to University Life      | 1       |       |         | Intro  |   |         |       |         |        |  |  |
| ENG 101: College Writing I             | 3       |       |         | W/C    | ENG 102: College Writing II               | 3       |       |         | W/C    |  |  |
| CHM 261/266: General Chemistry I + Lab | 4       | x     |         | NS     | CHM 262/267: General Chemistry II + Lab   | 4       | x     |         | NS     |  |  |
| PSY 221: Adolescent Psychology         | 3       |       | x       | SS     | BIO 200/201: Introductory Biology I + Lab | 4       | x     |         | NS     |  |  |
| MTH 181: Calculus I                    | 4       | x     |         | M/QL   | MTH 182: Calculus II                      | 4       | x     |         | M/QL   |  |  |
|  |         |       |         |        |   |         |       |         |        |  |  |
| <i>Semester Total</i>                  | 15      |       |         |        | <i>Semester Total</i>                     | 15      |       |         |        |  |  |

| <b>Second Year</b>                              |         |       |         |        |   |         |       |         |        |  |  |
|---|---------|-------|---------|--------|---|---------|-------|---------|--------|--|--|
| Fall Semester                                   | Credits | Major | License | Gen Ed | Spring Semester                                 | Credits | Major | License | Gen Ed |  |  |
| EUT 201: Step 1: Inquiry Approaches to Teaching | 1       |       | x       |        | EDB 242: Introduction to Education              | 3       |       | x       | DIV    |  |  |
| CHM 331/336: Organic Chemistry I + Lab          | 4       | x     |         |        | CHM 332/337: Organic Chemistry II + Lab         | 4       | x     |         |        |  |  |
| BIO 202/203: Introductory Biology II + Lab      | 4       | x     |         | NS     | BIO 304/305: Population Biology & Ecology + Lab | 4       | x     |         |        |  |  |
| EVS 206: Intro to Environmental Science         | 3       | x     |         | NS     | STA 147: Statistical Concepts & App             | 3       | x     |         | M/QL   |  |  |
| Arts & Humanities Elective (**ALAAME)           | 3       |       |         | A&H    | EDC 200: Div in Edu Settings                    | 3       |       | x       | DIV    |  |  |
| African American Experience Elective            | 3       |       |         | DIV    |   |         |       |         |        |  |  |
| <i>Semester Total</i>                           | 18      |       |         |        | <i>Semester Total</i>                           | 17      |       |         |        |  |  |

| <b>Third Year</b>                               |         |       |         |        |                                      |         |       |         |        |  |  |
|---|---------|-------|---------|--------|--------------------------------------|---------|-------|---------|--------|--|--|
| Fall Semester                                   | Credits | Major | License | Gen Ed | Spring Semester                      | Credits | Major | License | Gen Ed |  |  |
| EDB 302: Psychological Foundations of Education | 3       |       | x       | WAC    | EUT 305: Classroom Interactions      | 3       |       | x       |        |  |  |
| CHM 310/315: Survey of Analytical Chem + lab    | 4       | x     |         |        | PHY 201: Astronomy: Stars & Galaxies | 3       | x     |         | NS     |  |  |
| PHY 221: College Physics I                      | 5       | x     |         | NS     | PHY 222: College Physics II          | 5       | x     |         | NS     |  |  |
| GEO 100/101: Intro to Geology + Lab             | 4       | x     |         | NS     | ESE 400: Introduction to Education   | 3       |       | x       | WAC    |  |  |
| CHM 404: Environmental Chemistry                | 3       | x     |         |        | Social Science Elective (**ALAAME)   | 3       | x     |         | SS     |  |  |
|   |         |       |         |        |                                      |         |       |         |        |  |  |
| <i>Semester Total</i>                           | 19      |       |         |        | <i>Semester Total</i>                | 17      |       |         |        |  |  |

| <b>Fourth Year</b>  |         |       |         |         |   |         |       |         |         |  |  |
|---|---------|-------|---------|---------|---|---------|-------|---------|---------|--|--|
| Fall Semester   | Credits | Major | License | Gen Ed  | Spring Semester                               | Credits | Major | License | Gen Ed  |  |  |
| EUT 417: Project Based Instruction in Science                 | 3       |       | x       |         | EST 499: CSUteach STEM Apprentice Teaching II | 6       |       | x       |         |  |  |
| EST 399: CSUteach STEM Apprentice Teaching I                  | 1       |       | x       |         | EUT 210: Perspectives on Science & Math       | 3       |       | x       | A&H/WAC |  |  |
| EUT 311: Research Methods                                     | 3       |       | x       | WAC     | EDL 305: Content Area Literacy                | 3       |       | x       |         |  |  |
| CHM 402: Biochemistry   | 3       | x     |         |         |   |         |       |         |         |  |  |
| PHY 470: Environmental Physics                                | 3       | x     |         |         |   |         |       |         |         |  |  |
| CHM 320: Survey of Physical Chemistry                         | 3       | x     |         |         |   |         |       |         |         |  |  |
| CHM 472: Student Colloquium                                   | 1       | x     |         | CAP/WAC |   |         |       |         |         |  |  |
| <b>Apply for Spring graduation by the middle of this term</b> |         |       |         |         |   |         |       |         |         |  |  |
| <i>Semester Total</i>   | 17      |       |         |         | <i>Semester Total</i>                         | 12      |       |         |         |  |  |
| <i>Degree Total: 130</i>                                      |         |       |         |         |   |         |       |         |         |  |  |

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

**College/ Program Notes:**

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**University Notes:**

|  |   |
|--|---|
| <b>Gen Ed Key:</b>   | SS = Social Sciences (two courses from different departments)   |
| INTRO = Introduction to University Life (one course)   | A&H = Arts & Humanities (two courses from different departments)  |
| W/C = Writing/Composition (two courses; C or better required)  | DIV = Social Diversity (two courses; one US Diversity and one African American Experience)                |
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| NS = Natural Sciences (two courses, one of which must have a lab)  | CAP = Capstone  |
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