

This four year guide is a recommended semester-by semester plan of study for this major. All four year guides are meant as examples of how a degree can be completed in four years. Individual plans will be developed for each student in consultation with the academic advisor. Prior credit, course availability, and student needs must be considered in developing the individual plan.

Shaded areas of plan require special attention.

| Course Subject and Title | Credit Hours | Min. Grade Required | Included in Major GPA | Important Notes POS = Program of Study |
|--------------------------|--------------|---------------------|-----------------------|---|
|--------------------------|--------------|---------------------|-----------------------|---|

Semester One: [17 Credit Hours]

| | | | | |
|--|---|----|---|--|
| RC 1000 | 3 | | | May be taken in fall or spring of first year |
| CHE 1101 & 1110 | 4 | | X | Also counts in Gen Ed Science Inquiry requirement (<i>PRE: MAT 1020 or equivalent test score</i>) |
| MAT 1110 | 4 | C- | X | Also meets Gen Ed Quantitative Literacy requirement (<i>PRE: MAT 1025 or equivalent test score</i>) |
| Liberal Studies Experience Course 1 | 3 | | | HS or LS or FA or SS Designation |
| Integrative Learning Experience Course 1 | 3 | | | |

Semester Two: [15 Credit Hours]

| | | | | |
|-------------------------------------|---|--|---|--|
| UCO 1200 | 3 | | | May be taken in fall or spring semester of first year |
| CHE 1102 & 1120 | 4 | | X | Also counts in Gen Ed Science Inquiry requirement (<i>PRE: MAT 1020 or equivalent test score</i>) |
| MAT 1120 | 4 | | X | |
| Liberal Studies Experience Course 2 | 3 | | | HS or LS or FA or SS Designation |
| Gen Ed Wellness Literacy | 1 | | | |

Semester Three : [16 Credit Hours]

| | | | | |
|-----------------|---|----|---|--|
| RC 2001 | 3 | | | May be taken in fall or spring of sophomore year |
| CHE 2201 & 2203 | 4 | C- | X | Grade of C- required in both lecture & lab as prerequisite to CHE 2202 & 2204 |
| CHE 2210 & 2211 | 4 | | X | |
| PHY 1150 | 5 | | X | PHY 1150 & 1151 must be completed prior to fall semester of junior year as prerequisite to CHE 3301 & 3303 |

Semester Four: [16 Credit Hours]

| | | | | |
|--|---|----|---|--|
| CHE 2202 & 2204 | 4 | C- | X | Minimum grade of C- required in CHE 2202 as prerequisite to CHE 4580 to be taken in semester seven |
| PHY 1151 | 5 | | X | |
| Integrative Learning Experience Course 2 | 3 | | | HS or LS or FA or SS Designation |
| Gen Ed Wellness Literacy | 1 | | | |
| Free Elective | 3 | | | |

Semester Five: [14-15 Credit Hours]

| | | | | |
|-------------------------------------|-----|--|---|---|
| CHE 3301 & 3303 | 4 | | X | Offered Fall Semester only [WID] |
| CHE 3000 | 1 | | X | |
| Liberal Studies Experience Course 3 | 3 | | | |
| Other Science Course 1 | 3-4 | | X | Courses from AST, BIO, GLY, OR PHY, except 1000-level PHY courses or PHY 3350 |

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| Free Elective | 3 | | | |
| Semester Six: [14 Credit Hours] | | | | |
| CHE 3302 & 3304 | 4 | | X | Offered Spring Semester only |
| Integrative Learning Experience Course 3 | 3 | | | |
| CHE 4000 | 1 | | X | CAPSTONE |
| Free Elective | 3 | | | |
| Free Elective | 3 | | | |
| Semester Seven: [15 Credit Hours] | | | | |
| CHE 4580 Biochemistry I | 3 | | X | |
| CHE 4400 Senior Research | 1 | | X | CHE 4510 is an option for honors students |
| CHE 3404 & 3405 | 4 | | X | Offered Fall Semester only |
| Integrative Learning Experience Course 3 | 3 | | | |
| Free Elective | 4 | | | CS 1445 recommended |
| Semester Eight: [14-15 Credit Hours] | | | | |
| CHE 3560 & 3561 | 3 | | X | Offered Spring Semester only |
| Liberal Studies Experience Course 4 | 3 | | | HS or LS or FA or SS Designation |
| Other Science Course 2 | 3-4 | | X | Courses from AST, BIO, GLY, OR PHY, except 1000-level PHY courses or PHY 3350 |
| Free Elective | 3 | | | |
| Free Elective | 1-3* | | | *Take enough free electives to meet the 122 hours required for the degree |

| General Requirements Summary | | | | |
|-------------------------------------|---------------|---------------------|-----------|-------------|
| Minimum Total Hours | Gen Ed. Hours | Writing | Minimum | |
| | | | Major GPA | Overall GPA |
| 122 | 44 | RC 1000 and RC 2001 | 2.0 | 2.0 |

All CHE courses and all courses Major Requirements area on Program of Study count in the major GPA.

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

| General Education Program Model - 44 Semester Hours Total | | |
|---|-------|---|
| Program Categories | Hours | Important Notes – <i>Be sure to check for Gen Ed courses required in your major</i> |
| First Year Seminar | 3 | Can be taken first or second semester of freshman year |
| Wellness Literacy | 2 | |
| Quantitative Literacy | 4 | |
| First Year Writing | 3 | Can be taken first or second semester of freshman year |
| Sophomore Writing | 3 | |
| Integrative Learning Experience | 9 | Must choose a minimum of two disciplines |
| Liberal Studies Experience | 12 | Must choose a minimum of three disciplines |
| Science Inquiry | 8 | |
| <p>You must also meet the Fine Arts, Literary Studies, Historical Studies, and the Social Science Designations. Those may be met within the Integrative Learning Experience and the Liberal Studies Experience.</p> | | |

Additional Notes:

- Residency Requirements:
 - 31 hours overall must be from ASU
 - 18 hours in the major must be from ASU
 - 9 hours in the minor must be from ASU
 - Final 30 hours must be courses taken through ASU (includes internships, study abroad taken through ASU)