

2024 - 2025 Major Map



Chemistry, BA



School/College: [The College of Liberal Arts and Sciences](#)
LACHMBA




In order to complete the requirements of this program, some laboratory courses will be completed in-person at the Tempe Campus.


These laboratory courses will be offered during summer. This may impact your financial aid. Financial aid is available to those who apply and qualify, and students may receive funds to help cover costs for each semester of enrollment. The amount of financial aid that a student is eligible for varies depending on prior education experience and other individual factors. [Learn](#) more about summer financial aid and additional ways to cover summer costs.


| Term 1 - A 0 - 7 Credit Hours | Hours | Minimum Grade | Notes |
|--|-------|---------------|---|
| ASU 101-LA: The ASU Experience | 1 | | <ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. Select your Career Interest Areas and play me3@ASU. |
| ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition | 3 | C | |
| Social and Behavioral Sciences (SOBE) | 3 | | |
| Term hours subtotal: | 7 | | |


| Term 1 - B 7 - 13 Credit Hours Critical course signified by  | Hours | Minimum Grade | Notes |
|--|-------|---------------|---|
|  MAT 265: Calculus for Engineers I (MATH OR MA) | 3 | C | <ul style="list-style-type: none"> View ASU Online first-year student registration information here. |
| ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition | 3 | C | |
| Term hours subtotal: | 6 | | |

| Term 2 - A 13 - 20 Credit Hours Critical course signified by  | Hours | Minimum Grade | Notes |
|---|-------|---------------|---|
|  CHM 113: General Chemistry I (SCIT OR SQ) | 4 | C | <ul style="list-style-type: none"> Connect with a career advisor by registering for a Handshake account. |
| Governance and Civic Engagement (CIVI) | 3 | | |
| Term hours subtotal: | 7 | | |


| Term 2 - B 20 - 27 Credit Hours Critical course signified by  | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|  CHM 116: General Chemistry II (SCIT OR SQ) | 4 | C | |
| Humanities, Arts and Design (HUAD) | 3 | | |
|  Complete ENG 101 OR ENG 105 OR ENG 107 course(s). | | | |
| Term hours subtotal: | 7 | | |

| Term 3 - A 27 - 35 Credit Hours Critical course signified by | Hours | Minimum Grade | Notes |
|--|-------|---------------|---|
|  PHY 111: General Physics (SCIT OR SQ) | 3 | C | <ul style="list-style-type: none"> ASU Language Placement: Only true beginners are eligible for 101-level courses. All other students are required to take a placement exam, regardless of prior credit earned. Discuss study abroad opportunities with a School of Molecular Sciences advisor or an International Coordinator. |
| PHY 113: General Physics Laboratory (SCIT OR SQ) | 1 | C | |
| Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV. | 4 | C | |
| Term hours subtotal: | 8 | | |

| Term 3 - B 35 - 43 Credit Hours Critical course signified by | Hours | Minimum Grade | Notes |
|--|-------|---------------|-------|
|  PHY 112: General Physics (SCIT OR SQ) | 3 | C | |
| PHY 114: General Physics Laboratory (SCIT OR SQ) | 1 | C | |
| Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV. | 4 | C | |
| Complete First-Year Composition requirement. | | | |
| Complete Mathematics (MATH) requirement. | | | |
| Term hours subtotal: | 8 | | |

| Term 4 - A 43 - 50 Credit Hours Critical course signified by | Hours | Minimum Grade | Notes |
|--|-------|---------------|--|
|  CHM 233: General Organic Chemistry I | 3 | C | <ul style="list-style-type: none"> Create a first draft resume. |
| Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV. | 4 | C | |
| Term hours subtotal: | 7 | | |

| Term 4 - B 50 - 57 Credit Hours | Hours | Minimum Grade | Notes |
|--|-------|---------------|-------|
| CHM 234: General Organic Chemistry II | 3 | C | |
| Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV. | 4 | C | |
| Term hours subtotal: | 7 | | |

| Summer 4 57 - 59 Credit Hours Critical course signified by | Hours | Minimum Grade | Notes |
|--|-------|---------------|--|
|  CHM 237: General Organic Chemistry Laboratory I | 1 | C | <ul style="list-style-type: none"> ASU Online students will complete all experiments for the Organic Chemistry labs at the ASU Tempe campus during a one-week session |
| CHM 238: General Organic Chemistry Laboratory II | 1 | C | |

Term hours subtotal: 2

in summer. Lab reports will be completed in subsequent weeks during the same summer term.

| Term 5 - A 59 - 66 Credit Hours Necessary course signified by ★ | Hours | Minimum Grade | Notes |
|--|-------|---------------|-------|
|--|-------|---------------|-------|

| | | | |
|---|---|---|--|
| ★ CHM 341: Elementary Physical Chemistry | 3 | C | |
| CHM 343: Elementary Physical Chemistry Laboratory | 1 | C | |
| Humanities, Arts and Design (HUAD) | 3 | | |
| Term hours subtotal: | 7 | | |

| Term 5 - B 66 - 74 Credit Hours | Hours | Minimum Grade | Notes |
|---------------------------------|-------|---------------|-------|
|---------------------------------|-------|---------------|-------|

| | | | |
|-------------------------------|---|--|--|
| Quantitative Reasoning (QTRS) | 3 | | |
| Elective | 1 | | |
| Upper Division Elective | 4 | | |
| Term hours subtotal: | 8 | | |

| Term 6 - A 74 - 80 Credit Hours | Hours | Minimum Grade | Notes |
|---------------------------------|-------|---------------|-------|
|---------------------------------|-------|---------------|-------|

| | | | |
|------------------------------|---|--|--|
| American Institutions (AMIT) | 3 | | |
| Upper Division Elective | 3 | | |
| Term hours subtotal: | 6 | | |

- Explore [internship](#) opportunities.

| Term 6 - B 80 - 87 Credit Hours Necessary course signified by ★ | Hours | Minimum Grade | Notes |
|--|-------|---------------|-------|
|--|-------|---------------|-------|

| | | | |
|---------------------------------|---|---|--|
| ★ CHM 325: Analytical Chemistry | 3 | C | |
| Upper Division Elective | 4 | | |
| Term hours subtotal: | 7 | | |

- CHM 325 is only offered in the Spring semester.

| Summer 6 87 - 88 Credit Hours | Hours | Minimum Grade | Notes |
|-------------------------------|-------|---------------|-------|
|-------------------------------|-------|---------------|-------|

| | | | |
|---|---|---|--|
| CHM 326: Advanced Analytical Chemistry Laboratory | 1 | C | |
| Term hours subtotal: | 1 | | |

- ASU Online students will complete all experiments for the Advanced Analytical Chemistry lab at the ASU Tempe campus in a compressed format in summer. Lab reports will be completed in subsequent weeks during the same summer term.

| Term 7 - A 88 - 96 Credit Hours | Hours | Minimum Grade | Notes |
|---------------------------------|-------|---------------|-------|
|---------------------------------|-------|---------------|-------|

Global Communities, Societies and Individuals (GCSI) 3

Upper Division Elective 5

Term hours subtotal: 8

| Term 7 - B 96 - 102 Credit Hours Necessary course signified by ★ | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|---|-------|---------------|-------|

★ CHM OR BCH Upper Division Elective 3 C

Sustainability (SUST) 3

Term hours subtotal: 6

- Upper Division CHM or BCH Elective cannot be met with BCH 341, BCH 371, BCH 372, BCH 373 or CHM 480. Talk with your academic advisor for options.

| Term 8 - A 102 - 111 Credit Hours | Hours | Minimum Grade | Notes |
|-----------------------------------|-------|---------------|-------|
|-----------------------------------|-------|---------------|-------|

Complete 3 courses: 9

Upper Division Elective

Term hours subtotal: 9

| Term 8 - B 111 - 120 Credit Hours Necessary course signified by ★ | Hours | Minimum Grade | Notes |
|--|-------|---------------|-------|
|--|-------|---------------|-------|

★ CHM 453: Inorganic Chemistry 3 C

Complete 2 courses: 6

Upper Division Elective

Term hours subtotal: 9

- CHM 453 is only offered in the Spring semester.
- Apply for [full-time career opportunities](#).

[Hide Course List\(s\)/Track Group\(s\)](#)

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- [University Undergraduate Graduation Requirements](#)

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course. Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.