

Universal General Education Transfer Component (UGETC)

| English Composition (6 SCH): Complete BOTH English courses | | | | | | | | |
|--|-------------------------|--------------|----------------|------------------------------|--------------|--------------------------------|-------|--|
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes | |
| ENG 111 | Expository Writing | 3 | None | RC 1000 | 3 | Required | | |
| ENG 112 | Argument-Based Research | 3 | ENG 111 | RC 2001 | 3 | Required | | |
| Total Credit Hours Required | | 6 | | | 6 | | | |

| Humanities/Fine Arts (6 SCH): Select 2 classes from at least two different disciplines | | | | | | | | |
|--|------------------------|--------------|---------------------|------------------------------|--------------|--------------------------------|-------|--|
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes | |
| ART 111 | Art Appreciation | 3 | None | ART 2011 | 3 | | | |
| ART 114 | Art History Survey I | 3 | None | ART 2030 | 3 | | | |
| ART 115 | Art History Survey II | 3 | None | ART 2130 | 3 | | | |
| COM 231 | Public Speaking | 3 | None | COM 2105 | 3 | | | |
| ENG 231 | American Literature I | 3 | ENG 112, 113 or 114 | ENG 2350 | 3 | | | |
| ENG 232 | American Literature II | 3 | ENG 112, 113 or 114 | ENG 2350 | 3 | | | |
| ENG 241 | British Literature I | 3 | ENG 112, 113, 114 | Eng 2050 | 3 | | | |
| ENG 242 | British Literature II | 3 | ENG 112, 113, 114 | ENG 2050 | 3 | | | |
| MUS 110 | Music Appreciation | 3 | None | MUS 2011 | 3 | | | |
| MUS 112 | Introduction to Jazz | 3 | None | MUS 2014 | 3 | | | |
| PHI 215 | Philosophical Issues | 3 | ENG 111 | PHL Elective | 3 | | | |
| PHI 240 | Introduction to Ethics | 3 | ENG 111 | PHL 2000 | 3 | | | |
| Total Credit Hours Required | | 6 | | | 9 | | | |

| Social /Behavioral Science (6 SCH): Select 2 classes from at least two different disciplines | | | | | | | | |
|--|------------------------------|--------------|----------------|------------------------------|--------------|--------------------------------|-------|--|
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes | |
| ECO 251 | Principles of Microeconomics | 3 | None | ECO 2030 | 3 | | | |
| ECO 252 | Principles of Macroeconomics | 3 | None | ECO 2040 | 3 | | | |
| HIS 111 | World Civilizations I | 3 | None | HIS 1101 | 3 | | | |
| HIS 112 | World Civilizations II | 3 | None | HIS 1102 | 3 | | | |
| HIS 131 | American History I | 3 | None | HIS 1200 | 3 | | | |
| HIS 132 | American History II | 3 | None | HIS 1200 | 3 | | | |
| PSY 150 | General Psychology | 3 | None | PSY 1200 | 3 | | | |
| POL 120 | American Government | 3 | None | P S 1100 | 3 | | | |
| SOC 210 | Introduction to Sociology | 3 | None | SOC 1000 | 3 | | | |
| Total Credit Hours Required | | 6 | | | 6 | | | |

| Mathematics (8 SCH): Select 2 courses | | | | | | | | |
|---------------------------------------|--------------------------|--------------|----------------|------------------------------|--------------|--------------------------------|-------|--|
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes | |
| MAT 171 | Precalculus Algebra | 4 | None | MAT 1020 | 4 | | | |
| MAT 172 | Precalculus Trigonometry | 4 | MAT 171 | MAT 1025 | 4 | | | |
| MATH 263 | Brief Calculus | 4 | MAT 171 | MAT 1035 | 4 | | | |
| MATH 271 | Calculus I | 4 | MAT 172 | MAT 1110 | 4 | Required | | |
| MAT 272 | Calculus II | 4 | MAT 271 | MAT 1120 | 4 | Required | | |
| Total Credit Hours Required | | 8 | | | 8 | | | |

| Natural Sciences (8 SCH): Select 2 courses | | | | | | | | |
|--|-------------------------------|--------------|----------------------------|------------------------------|--------------|--------------------------------|-------|------------------------------------|
| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Required or Preferred by Major | Notes | |
| AST 151/151A | General Astronomy I and lab I | 4 | None | AST 1001 | 4 | | | |
| BIO 110 | Principles of Biology | 4 | None | BIO 1201/BIO 1204 | 4 | | | |
| BIO 111 | General Biology I | 4 | None | BIO 1201/BIO 1204 | 4 | | | must take both BIO 111 and BIO 112 |
| BIO 112 | General Biology II | 4 | BIO 111 | BIO 1202/BIO 1205 | 4 | | | must take both BIO 111 and BIO 112 |
| CHM 151 | General Chemistry I | 4 | None | CHE 1101/CHE 1110 | 4 | Required | | must take both CHM 151 and CHM 152 |
| CHM 152 | General Chemistry II | 4 | CHM 151 | CHE 1102/CHE 1120 | 4 | Required | | must take both CHM 151 and CHM 152 |
| GEL 111 | Introduction Geology | 4 | None | GLY 1101 | 4 | | | |
| PHY 110/110A | Conceptual Physics and Lab | 4 | None | PHY 1100 | 4 | | | must take course with lab |
| PHY 151 | College Physics I | 4 | MAT 171 | PHY 1103 | 4 | | | must take PHY 151 and PHY 152 |
| PHY 152 | College Physics II | 4 | PHY 151 | PHY 1104 | 4 | | | must take PHY 151 and PHY 152 |
| PHY 251 | General Physics I | 4 | MAT 271 | PHY 1150 | 4 | | | must take PHY 251 and PHY 252 |
| PHY 252 | General Physics II | 4 | MAT 272 <u>and</u> PHY 251 | PHY 1151 | 4 | | | must take PHY 251 and PHY 252 |
| Total Credit Hours Required | | 8 | | | 8 | | | |

Total UGETC Hours

34

34

Additional General Education Courses (13-14 SHC)

| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Category | Notes |
|------------------------------------|-------------------------|--------------|----------------|------------------------------|--------------|-----------|--------------------|
| PHY 251 | General Physics I | 4 | MAT 271 | PHY 1150 | 4 | UGETC | Required for major |
| GEL 111 | Introduction to Geology | 4 | | GLY 1101 | 4 | UGETC | Required for major |
| UGETC/GEC | | 4 | | | 4 | UGETC/GEC | |
| Total Credit Hours Required | | 12 | | | 12 | | |

Total General Education Hours Required

46

46

Other REQUIRED HOURS (15-16 SHC)

| Prefix | Course Name | Credit Hours | Pre-requisites | University Course Equivalent | Credit Hours | Category | Notes |
|------------------------|--------------------------|--------------|-------------------|------------------------------|--------------|------------------------|--------------------|
| ACA 122 | College Transfer Success | 1 | None | | 1 | GEC | required by CAA |
| PHY 252 | General Physics II | 4 | MAT 272 & PHY 251 | PHY 1151 | 4 | UGETC | Required for major |
| POL 130 | State & Local Government | 3 | | P S 2130 | 3 | Pre-Major | Required for major |
| BIO 111 | General Biology I | 4 | | BIO 1801 | 4 | UGETC | Required for major |
| Pre-Major/GEC/Elective | | 3 | | | 3 | Pre-Major/GEC/Elective | |

Other Required Hours (15-16 SCH)

15

15

Total Semester Credit Hours in Program: 61

- Degree requires both Physics and Chemistry sequences and will serve as prerequisites for future coursework.

3rd - 4th Year Plan: BS, Chemistry, Environmental

| Semester | Course | Hours | Notes | |
|----------|--|-------|--|--------------------------|
| 5 | CHE 2201 & 2203 Organic Chemistry I | 4 | Major Requirement | 15 |
| 5 | CHE 2210 & 2211 Quantitative Analysis | 4 | Major Requirement | |
| 5 | GHY 1010 Intro to Physical Geography | 3 | Major Requirement | |
| 5 | GLY 1103 Environmental Change, Hazards & Resources | 4 | Major Requirement | |
| 6 | CHE 2202 & 2204 Organic Chemistry II | 4 | Major Requirement | |
| 6 | CHE 3000 Introduction to Chemical Research | 1 | Major Requirement | 15 |
| 6 | ECO 2620 Environmental & Resource Economics | 3 | Major Requirement | |
| 6 | STT 3850 Statistical Data Analysis | 4 | Major Requirement | |
| 6 | Free Elective | 3 | Major Requirement | |
| 7 | CHE 3301 & 3303 Physical Chemistry I | 4 | Offered fall semester only - Writing in the Discipline | |
| 7 | CHE 3404 Inorganic Chemistry | 3 | Offered fall semester only | 15 |
| 7 | PHY 3140 Environmental Physics | 4 | Offered fall semester only | |
| 7 | CHE 3560 & 3561 Instrumental Methods of Analysis | 4 | Major Requirement | |
| 8 | CHE 4620 Environmental Chemistry | 4 | Offered Spring semester only | |
| 8 | BIO 3302 Ecology | 4 | Major Requirement | 16 |
| 8 | Free Elective | 3 | | |
| 8 | Free Elective | 5 | Take enough free electives to reach 122 hours | |
| | | | | 61 |
| | | | | 61 transfer hours |
| | | | | 122 hours for graduation |

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)