

General Education Requirements and Degree Information: BACHELOR OF SCIENCE IN BIOCHEMISTRY

ID: _____
Name: _____
Major: Biochemistry _____

Update: _____
Advisor: _____
Catalog: 2016-2017 _____
Anticipated Degree Completion: _____

| Course | Grade | Credit |
|-------------------------------|-------|--------|
| FY/Adv. Entry Seminar: | | |
| 05-014/214 | | |

| Foreign Language (4 sem.) | | |
|----------------------------------|--|--|
| I. | | |
| II. | | |
| III. | | |
| IV. | | |

| Social Justice Course: | Grade | Credit |
|-------------------------------|-------|--------|
| | | |

| Intercultural Perspective Course: | Grade | Credit |
|--|-------|--------|
| | | |

| 2 different FRAs: | Grade | Credit |
|--------------------------|-------|--------|
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| B.S. students need take only 7 of the 8 highlighted requirements | | |
|---|-------|--------|
| Humanities: 2 courses, may be same dept.: | Grade | Credit |
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| | | |

| Course | Grade | Credit |
|--------------------------|-----------|--------|
| Natural Sciences: | | |
| Exp. Lab: | B.S. CORE | |
| MAT or CSC: | B.S. CORE | |

| Social Sciences: 2 courses, must be diff. depts: | | |
|---|--|--|
| | | |
| | | |

| Fine Arts Lecture: | Grade | Credit |
|---------------------------|-------|--------|
| | | |

| Fine Arts Performance: | Grade | Credit |
|-------------------------------|-------|--------|
| | | |

| B.S. Core: | | |
|--------------------|-------|--|
| BIO 50-123, 50-121 | | |
| BIO 50-133, 50-131 | | |
| CHE51-153/151 | MAJOR | |
| CHE51-163/161 | MAJOR | |
| MAT52-154 | | |
| MAT52-254 | | |
| PHYS 53-154 | | |
| PHYS 53-164 | | |

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area. A major requires at least 30 credits, more than 50% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance.

BIOCHEMISTRY MAJOR (BS)

| Major Courses: | Grade | Credit |
|--|--------------|---------------|
| CHE51-153 Principles of General Chemistry or CHE51-151 Chemical Methods and Techniques Lab | | |
| CHE51-163/-161 Chemical Kinetics & Equilibrium | | |
| CHE51-822 Chemistry Literature Seminar | | |

| Capstone (2 options): | | |
|---|--|--|
| CHE51-912 Chem. Lab Capstone (Option1) | | |
| OR | | |
| CHE51-922 Senior Sem Capstone (Option2) | | |

| The following courses taken at SU: | | |
|---|--|--|
| CHE51-543/-541 Organic Chemistry I* | | |
| CHE51-553/-561 Organic Chemistry II for Majors* | | |
| CHE51-564 General Biochemistry I for Majors* | | |
| CHE51-584 General Biochemistry II* | | |

| 1 course from: | | |
|--|--|--|
| CHE51-634 Inorganic Chemistry and Biological Systems | | |
| CHE51-644 Instrumentation in Environmental & Biological Analysis | | |
| CHE51-714 Physical Chemistry: Thermodynamics & | | |

| 1 course from: | | |
|---|--|--|
| CHE51-684 Advanced Topics in Biochemistry | | |
| CHE51-604 Pharmaceutical Chemistry | | |
| CHE51-694 Biochemistry of Nucleic Acids | | |

| | | |
|---|--|--|
| BIO50-232 Methods in Cellular/Molecular Biology | | |
|---|--|--|

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|---|--|--|
| Upper-level BIO w/ lab in Cellular/Molecular area | | |
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| Electives: | Grade | Credit |
|-------------------|--------------|---------------|
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| Paideia: | | |
|-----------------|--------------|---------------|
| Cluster: | | |
| | Grade | Credit |
| Course 1: | | |
| Course 2: | | |
| Course 3: | | |
| Seminar: | | |
| Distinction: | | |
| | | |
| | | |

Total credits w/gen ed:

****Minimum of 127 credits required.**

* CHE51-564, CHE51-584 and at least 1 from CHE51-543/553 must be taken at SU.