CHEMISTRY (B.S.) BIOCHEMISTRY OPTION

Degree: Bachelor of Science

Major: Chemistry

Concentration: Biochemistry

Total Hours: 128

Code   Title                                      Hours

General Education Core Curriculum

Communication
ENGL 1301 Composition I                        3
Select one of the following:                   3
COMM 1315 Public Speaking I
COMM 1321 Business and Professional Speech
DSDE 1371 ASL I
ENGL 1302 Composition II
FREN 1311 Beginning French I
SPAN 1311 Beginning Spanish I

Mathematics - 3 hours
MATH 2413 Calculus and Analytical Geometry I  4

Life and Physical Sciences - 6 hours
BIOL 1406 General Biology I (Majors)          4
BIOL 1407 General Biology II (Majors)         4

Language, Philosophy and Culture
Select three hours from the following:         3
DSDE 1374 Introduction to Deaf Studies
ENGL 2300 Close Reading II
ENGL 2322 British Literature
ENGL 2326 American Literature
ENGL 2331 World Literature
ENGL 2376 African-American Literature
FREN 2312 Intermediate French II
PHIL 1370 Philosophy of Knowledge
PHIL 2306 Ethics
SPAN 2312 Intermediate Spanish II

Creative Arts
Select three hours from the following:         3
ARTS 1301 Art Appreciation
ARTS 1303 Art History I
COMM 1375 Film Appreciation
COSC 1324 The Art of Computer Game Development
DANC 2304 Dance Appreciation
MUSI 1306 Music Appreciation
MUSI 1309 Jazz History and Appreciation
MUSI 1310 History of Rock and Roll
PHIL 1330 Arts and Ideas
THEA 1310 Theatre Appreciation

American History
Select six hours from the following:           6
HIST 1301 U S History I 1763-1877
HIST 1302 U S History II Since 1877
HIST 2301 Texas History

Government/Political Science
POLS 2301 Intro to American Government I      3
POLS 2302 Intro/American Government II         3

Social and Behavioral Sciences
Select three hours from the following:         3
ANTH 2346 Introduction to Anthropology
ANTH 2351 Cultural Anthropology

Component Area Option - 6 hours
ENGL 1302 Composition II                       3
MATH 2414 Calculus and Analytical Geometry II  4

Required Major Courses

Chemistry Requirements
BIOI 2421 Microbiology for Science Majors      4
CHEM 1111 General Chemistry I Laboratory       1
CHEM 1112 General Chemistry II Laboratory     1
CHEM 1311 General Chemistry I                  3
CHEM 1312 General Chemistry II                 3
CHEM 3111 Organic Chemistry I Laboratory       1
CHEM 3112 Organic Chemistry II Laboratory     1
CHEM 3131 Inorganic Chemistry I Laboratory    1
CHEM 3311 Organic Chemistry I                  3
CHEM 3312 Organic Chemistry II                 3
CHEM 3331 Inorganic Chemistry                  3
CHEM 3401 Quantitative Analysis                4
CHEM 4131 Physical Lab                         1
CHEM 4132 Physical Lab                         1
CHEM 4141 Inorganic Chemistry II Laboratory   1
CHEM 4311 Physical Chemistry I                 3
CHEM 4312 Physical Chemistry II                3
CHEM 4341 Inorganic                           3
CHEM 4381 Chemical Communication              3
CHEM 4411 Biochemistry I                       4
CHEM 4412 Biochemistry II                      4
CHEM 4461 Instrumental Methods of Analysis     4
CHEM 4371 Intro Research                       3
or CHEM 4471 Introduction to Research

Biological Sciences
PHYS 1401 College Physics I                    4
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHYS 1402</td>
<td>College Physics II</td>
<td>4</td>
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<tr>
<td>PHYS 3350</td>
<td>Modern Physics</td>
<td>3</td>
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<tr>
<td>MATH 2415</td>
<td>Calculus III</td>
<td>4</td>
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<td><strong>Electives</strong></td>
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<td></td>
<td><strong>Chemistry Electives</strong></td>
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<td>Select 6 hours of CHEM courses, 3000 or 4000 level</td>
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<td><strong>Biology Electives</strong></td>
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<td>Select four hours from the following:</td>
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<td>BIOL 3440</td>
<td>Advanced Physiology</td>
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<td>BIOL 3470</td>
<td>Genetics</td>
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<td>BIOL 4101</td>
<td>Special Topics</td>
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<td>BIOL 4404</td>
<td>Molecular Biology</td>
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<td>BIOL 4405</td>
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<td>BIOL 4435</td>
<td>Environmental Toxicology</td>
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<td>BIOL 4470</td>
<td>Cell Biology/Histology</td>
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<td><strong>Total Hours</strong></td>
<td>129</td>
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1. Additional hours are applied to degree requirements below.
2. Courses must be approved by advisor.
3. Excess four hours from the core are applied here.