



College of Natural Sciences & Mathematics

Bachelor of Arts - Biochemical and Biophysical Sciences

Four-Year Academic Map – 2014-2015

| Year 1 | Semester 1 | | | | Semester 2 | | | | Total |
|--------|----------------|------------------------------------|---|-----------|------------------------------------|---|--|----|-------|
| | ENGL 1303 | First Year Writing I | 3 | ENGL 1304 | First Year Writing II | 3 | | | |
| | CHEM 1331 | Fundamentals of Chemistry I | 3 | CHEM 1332 | Fundamentals of Chemistry II | 3 | | | |
| | CHEM 1111 | Fundamentals of Chemistry I Lab | 1 | CHEM 1112 | Fundamentals of Chemistry II Lab | 1 | | | |
| | MATH 1431 | Calculus I | 4 | MATH 1432 | Calculus II | 4 | | | |
| | BIOL 1361 | Introduction to Biological Science | 3 | BIOL 1362 | Introduction to Biological Science | 3 | | | |
| | BIOL 1161 | Intro to Biological Science Lab | 1 | BIOL 1162 | Intro to Biological Science Lab | 1 | | | |
| | Semester Hours | | | 15 | Semester Hours | | | 15 | 30 |

| Year 2 | Semester 1 | | | | Semester 2 | | | | |
|----------------|------------|-------------------------------------|-------|----------------|--------------------------------------|---|----|-------|--|
| | | Foreign Language (2000-level) | 3 | CHEM 3332 | Fundamentals of Organic Chemistry II | 3 | | | |
| | CHEM 3331 | Fundamentals of Organic Chemistry I | 3 | CHEM 3222 | Fundamentals of Organic Chem. II Lab | 2 | | | |
| | CHEM 3221 | Fundamentals of Organic Chem. I Lab | 2 | BCHS 3304 | General Biochemistry I | 3 | | | |
| | MATH 2433 | Calculus III OR | } 3-4 | BCHS 3201 | Biochemistry I Laboratory | 2 | | | |
| | MATH 3338 | Probability OR | | CORE | Creative Arts | 3 | | | |
| | MATH 3339 | Statistics for the Sciences | | | Foreign Language (2000-level) | 3 | | | |
| | BIOL 3301 | Genetics | 3 | | | | | | |
| Semester Hours | | | 14-15 | Semester Hours | | | 16 | 30-31 | |

| Year 3 | Semester 1 | | | | Semester 2 | | | | |
|--------|----------------|-------------------------------------|---|-----------|--|---|--|----|----|
| | PHYS 1301 | Introductory General Physics I | 3 | PHYS 1102 | General Physics Laboratory II | 1 | | | |
| | PHYS 1101 | General Physics Laboratory I | 1 | PHYS 1302 | Introductory General Physics II Approved | 3 | | | |
| | BCHS 3305 | General Biochemistry II | 3 | POLS 1337 | US Govt: Congress, President, & Courts | 3 | | | |
| | POLS 1336 | US & Texas Constitutions & Politics | 3 | HIST 1378 | The United States Since 1877 | 3 | | | |
| | HIST 1377 | The United States to 1877 | 3 | Elective | Biochemical and Biophysical Science | 3 | | | |
| | CORE | Social & Behavioral Sciences | 3 | | Electives | | | | |
| | Semester Hours | | | 16 | Semester Hours | | | 13 | 29 |

| Year 4 | Semester 1 | | | | Semester 2 | | | | |
|--------|----------------|---|-----|-----------|--------------------------------|-----|--|-------|-------|
| | CHEM 4373 | Survey of Physical Chemistry OR | } 3 | BCHS 4304 | Biophysics | 3 | | | |
| | CHEM 4370 | Physical Chemistry I | | BCHS 4311 | Biochemistry Laboratory II | 3 | | | |
| | BCHS 4306 | Nucleic Acids | 3 | Elective | NSM Capstone or Electives | 3-4 | | | |
| | Elective | NSM Capstone or Electives | 6 | BCHS 4307 | Proteins | 3 | | | |
| | Elective | Approved Biochemical and Biophysical Sciences Electives | 3 | CORE | Language, Philosophy & Culture | 3 | | | |
| | Semester Hours | | | 15 | Semester Hours | | | 15-16 | 30-31 |
| | | | | | | | | | 120 |

Students should meet with their academic advisor to formulate their own plan.

