



Bachelor of Science in Natural Sciences

Major: Human Biology

2020-2021 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** _____ **Minor/Career Interest(s)** _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|------------------------------------|---------------------------------|---------|----------|-------|
| BIOL 119 | First Year Seminar | | 2 | F | |
| BIOL 151-151L | General Biology I and Lab (SGR #6) | | 4 | F | |
| CHEM 112 | General Chemistry I | p. MATH 114 or higher placement | 3 | F/S/Su | |
| CHEM 112L | General Chemistry I Lab | | 1 | F/S/Su | |
| ENGL 101 | Composition I (SGR #1) | p. Placement | 3 | F/S/Su | |
| PSYC 101 | General Psychology (SGR #3) | | 3 | F/S/Su | |
| Total Credit Hours | | | 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|-------------------------------------|---------------------------------|---------|----------|-------|
| BIOL 153-153L | General Biology II and Lab (SGR #6) | | 4 | S | |
| BIOL 290 | Seminar | | 1 | S | |
| CHEM 114 | General Chemistry II | p. CHEM 112, MATH 114 or higher | 3 | F/S/Su | |
| CHEM 114L | General Chemistry II Lab | | 1 | F/S/Su | |
| NURS 201 | Medical Terminology | suggested elective | 1 | F/S/Su | |
| SGR #4 | Arts and Humanities/Diversity | See list in catalog | 3 | | |
| SPCM 101 | Fundamentals of Speech (SGR #2) | | 3 | F/S/Su | |
| Total Credit Hours | | | 16 | | |

Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------|-------------------------|------------------------|---------|----------|-------|
| | Shadowing or Internship | | | | |

Second Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|-------------------------------------|---|---------|----------|-------|
| BIOL 202 | Genetics and Organismal Biology | p. BIOL 103 or BIOL 153, CHEM 114/L | 3 | F | |
| BIOL 202L | Genetics and Organismal Biology Lab | | 1 | F | |
| CHEM 326 | Organic Chemistry I | p. CHEM 114 | 3 | F | |
| CHEM 326L | Organic Chemistry I Lab | (if only want 2 sciences, wait on CHEM) | 1 | F | |
| ENGL 201 | Composition II (SGR #1) | p. ENGL 101 | 3 | F/S/Su | |
| MICR 233-233L | Introductory Microbiology and Lab | p. BIOL 151 & 6 cr. CHEM | 4 | F | |
| Total Credit Hours | | | 15 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|-----------------------------------|----------------------------------|---------|----------|-------|
| BIOL 204 | Genetics and Cellular Biology | p. BIOL 202/L | 3 | S | |
| BIOL 204L | Genetics and Cellular Biology Lab | | 1 | S | |
| BIOL 221-221L | Human Anatomy and Lab | p. Sophomore standing or consent | 4 | F/S/Su | |
| CHEM 328 | Organic Chemistry II | p. CHEM 326 | 3 | S | |
| CHEM 328L | Organic Chemistry II Lab | | 1 | S | |
| PHIL 220 | Introduction to Ethics (SGR #4) | | 3 | F/S/Su | |
| Total Credit Hours | | | 15 | | |

Information Subject to Change. This is not a contract.

p. = Course Prerequisite, c. = Corequisites
Semester: F = Fall, S = Spring, SU = Summer



Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------|----------------------------|------------------------|---------|----------|-------|
| | Research and/or Internship | | | | |

Third Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|---|---------|----------|-------|
| BIOL 325-325L | Physiology and Lab | p. BIOL 221/L & 8 cr. CHEM | 4 | | |
| BIOL 383 | Bioethics | Cross-Listed: PHIL 383 | 4 | F | |
| Major Electives | Select 1/4 from Health related electives: BIOL 470, 476, 494, 498, 483, CHEM 464, MICR 424, 433, 440L, 448, or EXS 454/L | CHEM 464 recommended (F/SU only) | 3 - 4 | | |
| PHYS Elective | Physics elective | p. MATH 114 or higher Discuss with advisor whether PHYS 111 -113 is appropriate | 4 | | |
| Total Credit Hours | | | 15 - 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|--|---------|----------|-------|
| BIOL 490 | Seminar | | 2 | | |
| Major Electives | Select 2/4 from Health-related electives: BIOL 470, 476, 494, 498, 483, CHEM 464, MICR 424, 433, 440L, 448, or EXS 454/L | Consider CHEM 466 for Chemistry minor | 3 - 4 | | |
| STAT 281 | Introduction to Statistics | p. MATH 103 or higher | 3 | F/S/Su | |
| General Elective | Select from any discipline | | 4 | | |
| SOC 100 | Introduction to Sociology (SGR #3) | see list in catalog for substitute | 3 | F/S/Su | |
| | MCAT/DAT/OAT Prep | | 0 | | |
| Total Credit Hours | | | 15 - 16 | | |

Summer

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|-----------------|--|------------------------|---------|----------|-------|
| | MCAT/DAT/OAT/GRE and App. to Professional School | | | | |

Fourth Year

Fall

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|------------------------------|--|---|---------|----------|-------|
| Major Electives | Select 3/4 from Health-related electives: BIOL 470, 476, 494, 498, 483, CHEM 464, MICR 424, 433, 440L, 448, or EXS 454/L | | 3 - 4 | | |
| MATH 121-121L or MATH 115 | Survey of Calculus and Lab or Precalculus (SGR #5) | p. MATH 114, 115 or placement p. MATH 114 or placement | 5 | | |
| MICR 439 | Medical and Veterinary Immunology | p. MICR 233 & BIOL 204 | 3 | F | |
| General Elective | Peer mentoring or other electives | | 4 | F | |
| Total Credit Hours | | | 15 - 16 | | |

Spring

| Prefix + Number | Course Title | Prerequisites/Comments | Credits | Semester | Grade |
|---------------------------|--|---------------------------------|---------|----------|-------|
| ENGL 379 | Technical Communication (BIOL/MICR section) | p. ENGL 201 (BIOL/MICR section) | 3 | F/S | |
| Major Electives | Select 4/4 from Health-related electives: BIOL 470, 476, 494, 498, 483, CHEM 464, MICR 424, 433, 440, 448, EXS 454/L | Such as MICR 433 | 3 - 4 | | |
| General Elective | Select from any discipline | | 7 | | |
| Total Credit Hours | | | 13 - 14 | | |

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).

NOTE: A grade of C or higher is required for all major requirements including BIOL, MICR, CHEM 112, CHEM 114, CHEM 326, CHEM 328, CHEM 464, PHYS 111, PHYS 113, MATH 125, and STAT 281.

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p. = Course Prerequisite, c. = Corequisites
Semester: F = Fall, S = Spring, SU = Summer

