BIOLOGY AND CHEMISTRY COURSE SEQUENCE GUIDE

**General Chemistry Series**
- CHEM& 139 2.0
  - Prep. Gen. Chemistry
    (MATH 98 or higher taken within 2 years recommended)
- CHEM& 161 2.0
  - Gen. Chem. with Lab I
- CHEM& 162 2.0
  - Gen. Chem. with Lab II
- CHEM& 163 1.0
  - Gen. Chem. with Lab III

**Microbiology**
- CHEM& 260
  - Microbiology
    (Prereq: 2 biology lab &/ or chemistry lab courses with a 2.0 or higher & eligibility for ENGL& 101)

**Intro to Organic Chem. & Biochem.**
- CHEM& 121 2.0
  - Intro to Chemistry
    (Prereq: MATH 098 w/pass or placement test higher)
- CHEM& 131 2.0
  - Intro to Organic Chem. & Biochem.

**Gen. Biology with Lab**
- BIOL& 160
  - Gen. Biology with Lab
  (Prereq: BIOL& 211 also acceptable w/ 2.0 or higher)
- BIOL& 241 2.0
  - Human A&P I
- BIOL& 242 2.0
  - Human A&P II

**Intro to Organic Chemistry I**
- CHEM& 241
  - Organic Chemistry I
- CHEM& 242
  - Organic Chemistry II
- CHEM& 243
  - Organic Chemistry III

**Biochemistry I**
- CHEM 255

**Biochemistry II**
- CHEM 256

**Biology Series**
- BIOL& 211 2.0
  - Majors Cellular
    (Prereq: chemistry lab w/ 2.0 or higher or concurrent enrollment)
- BIOL& 212 2.0
  - Majors Animal
- BIOL& 213
  - Majors Plant

**Organic Chemistry Lab I**
- CHEM& 251

**Organic Chemistry Lab II**
- CHEM& 252

**Organic Chemistry Lab III**
- CHEM& 253
PHYSICS, ENGINEERING, & COMPUTER SCIENCE COURSE SEQUENCE GUIDE

**Intro Computer Programming**
- CSC 110: Intro Computer Programming
  - Prerequisites: MATH 098 with a minimum grade of 2.0 or higher

**Computer Programming I**
- CSC 142: Computer Programming I
  - Prerequisites: MATH& 141 with a minimum grade of 2.0 or higher

**Computer Programming II**
- CSC 143: Computer Programming II
  - Prerequisites: CSC 142 with a minimum grade of 3.0

**Algebra-Based Physics**
- MATH 098: Intermediate Algebra
  - Grade: 2.0

**General Physics I**
- PHYS& 114: General Physics I
  - Grade: 2.0

**General Physics II**
- PHYS& 115: General Physics II
  - Grade: 2.0

**General Physics III**
- PHYS& 116: General Physics III
  - Grade: 2.0

**Calculus-Based Physics**
- MATH& 151: Calculus I
  - Grade: 2.0

**Engineering Physics I**
- PHYS& 221: Engineering Physics I
  - Prerequisites: Also take PHYS& 114 if not taken 1 year of high school physics
  - Grade: 2.0

**Engineering Physics II**
- PHYS& 222: Engineering Physics II
  - Prerequisites: MATH& 152 with a minimum grade of 2.0 or higher
  - Grade: 2.0

**Engineering Physics III**
- PHYS& 223: Engineering Physics III
  - Grade: 2.0

**Engineering Statics**
- ENGR& 214: Engineering Statics
  - Prerequisites: PHYS& 221 with a pass and MATH& 152 with a pass
  - Grade: 1.0

**Thermodynamics**
- ENGR& 224: Thermodynamics
  - Prerequisites: CHEM& 161 with a pass, MATH& 152 with a pass, and PHYS& 221 with a pass
  - Grade: 2.0

**Engineering Dynamics**
- ENGR& 215: Engineering Dynamics
  - Grade: 2.5

**Mechanics of Materials**
- ENGR& 225: Mechanics of Materials
  - Grade: 1.0

**Numerical Methods**
- ENGR 240: Numerical Methods
  - Prerequisites: MATH& 152 with a pass and CSC 110 with a pass
  - Grade: 2.0

**Electrical Engr. Circuits**
- ENGR& 204: Electrical Engr. Circuits
  - Prerequisites: MATH& 152 with a pass and PHYS& 222 with a pass

**NOTE:** It's strongly recommended making an appointment with an advisor to determine which sequence of classes to take based on your program of study. Students can schedule an appointment to make an educational plan either on Starfish, by calling 206-934-3658 or in-person at Student Success Services.