BIOLOGICAL SCIENCES
Program Code: N.LSC.AS

Associate in Science (A.S.)
Graduation requirement — 60 semester hours

The Biological Sciences area of study is designed for students interested in pursuing a bachelor’s degree in one of the various biological sciences or professional health careers.

Students should plan their transfer programs with a Parkland academic advisor or counselor and the catalog of the four-year college or university they plan to attend.

Program Notes*
• General Education Core Curriculum requirements for the Associate in Science (A.S.) degree do not fully satisfy the IAI General Education Core Curriculum (GECC) requirements. Additional courses to complete the GECC may be taken after transferring.
• Students interested in pre-professional medical sciences should follow the biological science recommendations listed below and should consult the four-year college or university they plan to attend.
• Recommended courses are designed to facilitate completion of the A.S. degree and transfer into a four-year college or university with junior standing in a chosen academic path. Students are advised to follow the recommendations.

Pre-Dentistry
• CHE 203, CHE 204, CHE 205, and CHE 206 required

Pre-Medicine and Pre-Veterinary Medicine:
• BIO 121 required
• MAT 128 required
• CHE 203, CHE 204, CHE 205, and CHE 206 required

Pre-Pharmacy:
• BIO 121 and BIO 122 required
• BIO 123 required
• MAT 160 recommended
• PHY 121 and PHY 122 highly recommended

Pre-Physical Therapy:
• BIO 121 and BIO 122 required

Clinical Laboratory Science:
• BIO 123 required
• MAT 160 recommended
• PHY 121 highly recommended

General Education Core Courses (34–36 hours) Cr. Hrs.
Communications (9)
COM 103 Introduction to Public Speaking .................. 3
ENG 101 Composition I ..................................... 3
ENG 102 Composition II ..................................... 3
Humanities/Fine Arts electives .................................. 6
• Must choose one course from Humanities and one from Fine Arts
Social/Behavioral Sciences electives .......................... 6
• Soc/Beh Sci courses must be from at least two disciplines
• One course from Hum/Fine Arts or Soc/Beh Sci must fulfill the non-Western culture requirement
Mathematics elective ........................................... 3–5
Life Sciences (laboratory-based) elective .................... 4–5
Recommended: BIO 141 Principles of Biology I (5)
Physical Sciences (laboratory-based) elective ............. 4–5
Recommended: CHE 141 General Chemistry I (5)

A.S. Degree Requirement (8–10 hours)
Must include one additional mathematics and one additional physical or life science course.
Any AST, BIO, CHE, ESC, PHY, or SCI courses numbered 100 through 289 whose second digit is even, beyond the general education requirements in science, may fulfill the additional science course requirement.
Recommended: BIO 142 Principles of Biology II (5)

Recommended Courses (14–18 hours)
Choose from the following:
BIO 121 Anatomy and Physiology I .......................... 4
BIO 122 Human Anatomy and Physiology II ............. 4
BIO 123 Microbiology ........................................... 4
CHE 142 General Chemistry II .................................. 5
CHE 203 Organic Chemistry I .................................. 3
CHE 204 Organic Chemistry Lab I ............................. 2
CHE 205 Organic Chemistry II ................................ 3
CHE 206 Organic Chemistry Lab II ............................ 2
PHY 121 General Physics I ..................................... 5
PHY 122 General Physics II ..................................... 5

Total Semester Credit Hours 60

Suggested Full-time Sequence

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<td>BIO 141</td>
<td>ENG 102</td>
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<td>ENG 101</td>
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