

Biology/Botany/Zoology

Associate in Science

Total Required Credits for Degree: minimum of 64
General Education Core Curriculum: minimum of 37
Additional Math/Science: 10 to 15
Additional Coursework: 12 to 17

Code: 8813

Note: Consult a faculty adviser or the Counseling and Advising office before planning coursework.

About the Program

The College of DuPage Biology/Botany/Zoology program offers general interest courses in addition to classes for biological sciences. The study of biology can be personally enriching and useful in understanding such complex issues as environmental degradation, energy use, health, food production and genetic engineering. Opportunities increase along with salary levels with professional and advanced degrees. See the program notes below for more information.

Program web site: www.cod.edu/biology

First Semester Possibilities

Students enrolled in a minimum of 12 credits are considered full-time students. The following courses are examples of possible choices for the first semester of study:

Course	Credits
Biolo 1151 Principles of Biological Science.....	5
Chemi 1551 Principles of Chemistry I	5
Engli 1101 English Composition I	3
Math 1431 Precalculus I	5

Program Notes

1. If you are interested in pursuing biology, botany or zoology for your baccalaureate major, begin consultation early with your adviser and the institutions to which you might transfer.
2. Non-science majors who desire a full year overview of the general field of biology may take Biology 1151 and 1152. Non-science majors might instead consider Biology 1100 (Survey of Biology), Biology 1110 (Environmental Biology) and/or Botany 1310 (Ethnobotany), which are survey and special interest courses.
3. Students in nursing, radiology technology and similar areas are encouraged to take Biology 1151 before enrolling in anatomy and physiology or microbiology.

General Education Core Curriculum

Each candidate for an A.S. degree shall satisfactorily complete a minimum of 37 General Education credits. General Education credit may not be earned using a Satisfactory/Fail grade.

Use the *Student Planning Worksheet* or consult a list of General Education categories and courses for this degree to decide what needs to be taken. Links can be found on the Biology online program guide (www.cod.edu, click on "Academics" and then choose this program from the drop-down menu).

Under the specified General Education headings below, the following courses are recommended for the Biology/Botany/Zoology Associate in Science degree:

Communication: 9 credits

Written: 6 credits

Oral: 3 credits

Required courses: English 1101 and 1102 (grade of "C" or higher required); Speech 1100 (grade of "C" or higher required)

Physical/Life Sciences: 7 to 10 credits

Select at least one course from Life Sciences and one course from Physical Sciences. At least one course must have a laboratory component.

Recommended courses: Biology 1151*, 1152; Biology 2150, 2151; Botany 2350, 2360 and/or Zoology 2260, 2250; Chemistry 1551* (Math 1431 (or equivalent) is a pre-requisite to Chemistry 1551) and 1552 (inorganic); Chemistry 2551 and 2552 (organic).
(*conforms to IAI standards)

Note: Biology majors and those interested in related areas such as zoology, botany and ecology should enroll in Biology 1151 and 1152. In addition, biology majors are strongly encouraged to enroll in second-year biology courses such as Biology 2150 (Ecology), Biology 2151 (Cell Biology), Botany 1320 (Prairie Ecology), 2350 (Introduction to Biology), 2360 (Local Flora); and/or Zoology 2260 (Invertebrate Zoology), Zoology 2250 (Comparative Vertebrate Anatomy).

Two years of chemistry (Chemistry 1551, 1552, 2551, 2552) and one year of physics (Physics 1201, 1202) are strongly recommended for biology majors.

Mathematics: 3 to 5 credits

Required courses: Mathematics 1431, 1432, 1635

Recommended courses: One or more semesters of calculus (Mathematics 2231, 2232, 2233) may be required at the transfer school.

Humanities and Fine Arts: 9 credits

Select at least one course from Humanities and at least one course from Fine Arts.

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Please note: Only one foreign language course may apply for general education credit. Additional foreign language courses will count as elective credit toward your degree.

Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.

Recommended courses: One or two years of a foreign language may be required; consult your transfer institution.

Social and Behavioral Sciences: 9 credits

Courses must be selected from at least two disciplines. See note under Humanities/Fine Arts regarding History courses.

Recommended courses: See the *Student Planning Worksheet*.

Additional Math/Science Requirements

Physical and Life Sciences

Select two courses up to a maximum of 10 credits.

Mathematics

Select one course up to a maximum of 5 credits.

Additional Coursework

Students are strongly advised to consult with a faculty adviser and/or the transfer institution in selecting 12 to 17 General Elective credits. Students can earn a maximum of 10 credits in technical/occupational areas (the transferability of these courses needs to be validated with a transfer institution).

Additional A.S. Degree Requirements

These credits can count as either General Education Core Curriculum (in the Humanities category or the Social and Behavioral Sciences category) or as General Elective credit, whichever applies.

Human Relations: Complete one course.

Recommended course: See the *Student Planning Worksheet*.

Global/Multicultural Studies or Contemporary Life Skills:

Complete one course.

Recommended course: See the *Student Planning Worksheet*.

IAI (Illinois Articulation Initiative)

The IAI General Education Core Curriculum is based on a package concept, in which a package of courses is used to meet the receiving institution's lower-division general education requirements. The entire IAI package must be completed to ensure full articulation.

Always seek the advice of an academic adviser at College of DuPage or an admissions counselor at a transfer institution when choosing major courses. For additional information, check the web site at: www.itransfer.org or the College of DuPage transfer guide web site at home.cod.edu/academics/transferinfo.

Advisers

If you are considering this program as an area of study, consult with an adviser in this field:

	Location	Phone
Barbara Anderson	HS 1329	(630) 942-2347
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Areas of interest: Biology, Botany		
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Areas of interest: Biology, Anatomy and Physiology		
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Areas of interest: Biology, Anatomy and Physiology		
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Areas of interest: Biology, field experiential courses		
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Areas of interest: Biology, field experiential courses Botany, Environmental Biology		