

BIOLOGICAL SCIENCE MAJORS (Suggested Associate in Science Degree Curriculum)

This worksheet is designed to help students select courses which are likely to apply to a major in **BIOLOGICAL SCIENCES**. The suggested courses satisfy requirements in the **Associate in Science degree** program at Prairie State College and provide the basis for transferring to a four-year institution. This program meets the guidelines of the **IAI (Illinois Articulation Initiative) Baccalaureate Major Panel for Biological Science**. Students should obtain a copy of the Prairie State College **Associate in Science Degree Worksheet** and should visit the IAI Website at www.iTransfer.org for more information.

Biology, the study of living organisms, is an extremely large and diverse field. Baccalaureate biological science programs are diverse. Some programs emphasize cell and molecular biology, whereas others emphasize organismal, ecological, and evolutionary biology. Research universities offer specific programs of study, optional tracks, or specializations within biology. Students should decide the direction or specialization within biology as early as possible, preferably by the beginning of sophomore year. For maximum transferability, students are encouraged to complete all general education, supporting science, and biology core courses prior to transfer. Career opportunities exist in many areas such as research, government agencies (conservation department, environmental protection, etc.), industry, sales, and teaching at all educational levels. In addition, the biology curriculum provides the pre-professional foundation for many of the health career areas.

SUGGESTED CURRICULUM

Each senior institution has its own transfer policies. Therefore, we cannot guarantee the accuracy of this information in regard to every individual school. Consult the school of your choice and/or the Prairie State College Counseling & Advising Center to discuss the transferability of courses.

TRANSFERABLE GENERAL EDUCATION CORE (39-41 credits)

Area A: Communications (9 credits)

ENG 101 (3)	[C1 900]*	Composition I (Prereq. ENG 099, C or better, or qualifying score on English Placement Test)
ENG 102 (3)	[C1 901R]*	Composition II (Prereq. ENG 101 with C or better)
COMM 101 (3)	[C2 900]	Principles of Communication

**Must have a "C" or better in ENG 101 & 102 to receive credit for the degree.*

Area B: Humanities and Fine Arts (9 credits)

Select three courses with at least one course selected from the humanities area and one course from the fine arts area. Refer to the Associate in Science Degree Worksheet, Area B, for a listing of approved course choices.

Humanities Course (3)	Select any Area B Humanities Course (Prereq. Placement in ENG 099 or above)
Fine Arts Course (3)	Select any Area B Fine Arts Course (Prereq. Placement in ENG 099 or above)
Humanities/Fine Arts Course (3)	Select any Area B Course (Prereq. Placement in ENG 099 or above)

Area C: Mathematics (3-5 credits)

MATH 171 (5)	[M1 900-1]	Calculus with Analytic Geometry I (Prereq. MATH 165 with C or qualifying score on Math Placement Test)
OR		
MATH 153 (4)	[M1 902]	Statistics (Prereq. MATH 151 with C or qualifying score on Math Placement Test)
OR		
MATH 115 (3)	[M1 902]	General Education Statistics (Prereq. MATH 095 & 096 with C or better OR MATH 095 and high school geometry, both with C or better OR qualifying score on Math Placement Test)

Area D: Physical and Life Sciences (9 credits)

BIOL 112 (4)	[L1 900L]	Organismal Biology (Prereq. high school biology and placement into ENG 099 or above)
CHEM 110 (5)	[P1 902L]	General Chemistry I (Prereq. MATH 095 or placement in MATH 151 and high school chemistry or CHEM 104)

Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines. Refer to the Associate in Science Degree Worksheet, Area E, for a listing of approved course choices.

Social/Behavioral Sci Course (3)	Select any Area E Social/Behav Sci Course (Prereq. Placement in ENG 099 or above)
Social/Behavioral Sci Course (3)	Select any Area E Social/Behav Sci Course (Prereq. Placement in ENG 099 or above)
Social/Behavioral Sci Course (3)	Select any Area E Social/Behav Sci Course (Prereq. Placement in ENG 099 or above)

BIOLOGICAL SCIENCE MAJOR COURSE RECOMMENDATIONS (21-23 credits)

(check with the school to which you plan to transfer to verify the transferability of these courses for this major)

Select 21-23 credits from the “suggested” course recommendations listed below:

Suggested IAI Biological Science Core courses include:

BIOL 111 (4)	[BIO 910]	Cellular and Molecular Biology (Prereq. High school biology and placement in ENG 099 or above)
CHEM 130 (5)	[BIO 907]	General Chemistry II (Prereq. CHEM 110 with C or better)

Take two required courses in physics **OR** two required courses in organic chemistry **OR** (one course in physics AND course in organic chemistry). The other two courses below, then, are optional:

CHEM 203 (5)	[BIO 908]	Organic Chemistry I (Prereq. CHEM 130 with C or better)
CHEM 204 (5)	[BIO 909]	Organic Chemistry II (Prereq. CHEM 203)
PHYSI 210 (4)	[BIO 903]	University Physics I (Prereq. MATH 171 and high school physics)
PHYSI 220 (4)	[BIO 904]	University Physics II (Prereq. MATH 171)

Please Note: This program does not require any further electives. However, students selecting additional course work should note that field courses in biology/botany and comparative vertebrate anatomy are biology electives that offer reasonable probability of transfer. Courses such as microbiology and human anatomy and physiology sometimes will transfer for credit in allied health majors, but most often do not transfer as biology major credit.

Other suggested courses which satisfy the PSC AS degree requirements may include electives such as:

Any additional general education courses selected from Areas B, C, D, or E

Any entry level majors course in a transferable major area

Any foreign language courses*

Up to four credits of physical education courses

Additional courses recommended as transferable by the school to which you plan to transfer.

***Foreign Language Requirement:** Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school, or four semesters in college, will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.

62 CREDITS REQUIRED FOR AN ASSOCIATE IN SCIENCE DEGREE

FOR FURTHER INFORMATION CONTACT:

Counseling & Advising Center Room 1190 (708) 709-3506

BIOLOGICAL SCIENCE DEPARTMENT FACULTY:

Dr. Christa Adam, Associate Professor	Room 4155	(708) 709-3734	cadam@prairiestate.edu
Dr. Reuben Barrett, Professor	Room 4156	(708) 709-3668	rbarrett@prairiestate.edu
Dr. Nicholas Halm-Lutterodt, Associate Professor	Room 3151	(708) 709-3610	nhlutterodt@prairiestate.edu
Ms. Marian Kelly, Professor	Room 3152	(708) 709-3669	mkelly@prairiestate.edu
Dr. Craig Nelson, Ass Professor	Room 3150	(708) 709-3606	cnelson@prairiestate.edu
Mr. James White, Professor	Room 4157	(708) 709-3675	jwhite@prairiestate.edu

FOR TRANSFER INFORMATION:

Course Applicability System (CAS): www.transfer.org

Illinois Articulation Initiative (IAI): www.iTransfer.org

Links to Articulation Tables for Illinois Colleges: <http://www.itransfer.org/IAI/Other/Articulationlinks.taf>

Visit the web sites of colleges and universities to which you plan to transfer.

FOR CAREER INFORMATION:

Occupational Outlook Handbook, U.S. Department of Labor: <http://www.bls.gov/oco/home.htm>

American Institute of Biological Sciences: <http://www.aibs.org>

American Physiological Society: <http://www.the-aps.org>