

CHEMISTRY MAJORS (Suggested Associate in Science Degree Curriculum)

This worksheet has been designed to help students select courses which are likely to apply to a major in **CHEMISTRY**. These 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 Chemistry**. Students should obtain a copy of the Associate in Science Degree Worksheet and should visit the IAI Website at www.iTransfer.org for more information.

Bachelor's programs in chemistry are built on an in-depth foundation of sequential coursework in science and math, while upper-division coursework provides the preparation necessary for graduate studies and/or work in industry. Multiple tracks are often available. For example, some institutions offer a specialty in biochemistry or certification for high school teaching. To transfer as a junior into a bachelor's chemistry program, students must complete a minimum of 60 semester credits, including the essential prerequisite courses listed here. Students should be aware that because of differences among schools in the number of credits for which various courses are offered, and the possible need for prerequisite courses, it may be difficult to complete an Associate in Science degree without taking more credits than will be accepted in transfer.

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 Advising Center to discuss the transferability of courses.

TRANSFERABLE GENERAL EDUCATION CORE (39-40 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, C or better)
COMM 101(3)	[C2 900]	Principles of Communication (Prereq. Placement in ENG 099 or above)

**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 (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)
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Area D: Physical and Life Sciences (7-8 credits)

Select one life science and one physical science course. Once course must have a lab component. Refer to the Associate in Science Degree Worksheet, Area D, for a listing of approved course choices.

PHYSI 210 (4)	[P2 900L]	University Physics I (Prereq. MATH 171 and high school physics)
One life science course (3-4)	Select any Area D Physical Science Course (Prereq. Placement in ENG 099 or above)	

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)
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CHEMISTRY MAJOR COURSE RECOMMENDATIONS (22-23 credits)

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

Select 22-23 credits from the "suggested" course recommendations listed below:

Suggested IAI Chemistry Core courses include:

CHEM 110 (5)	[CHM 911]	General Chemistry I (Prereq. MATH 095 or placement in MATH 151 AND high school chemistry)
CHEM 130 (5)	[CHM 912]	General Chemistry II (Prereq. CHEM 110 with C or better)
CHEM 203 (5)	[CHM 913]	Organic Chemistry I (Prereq. CHEM 130 with C or better)
CHEM 204 (5)	[CHM 914]	Organic Chemistry II (Prereq. CHEM 203)

Be aware that because of differences among schools in the number of credits for which various courses are offered, and the possible need for prerequisite courses, it may be difficult to complete an Associate in Science degree without taking more credits than will be accepted in transfer.

Other suggested chemistry major courses often include:

MATH 172 (5)	[MTH 902]	Calculus with Analytic Geometry II (Prereq. MATH 171)
MATH 173 (5)	[MTH 903]	Calculus with Analytic Geometry III (Prereq. MATH 172)
PHYSI 220 (5)		University Physics II (Prereq. PHYSI 210 and MATH 172)

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

CHEMISTRY DEPARTMENT FACULTY:

Christine Brooms, Assistant Professor Room 2297 (708) 709-3604 cbrooms@prairiestate.edu

FOR TRANSFER INFORMATION:

u.select, formerly known as 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>