Black Hawk College

Sample Transfer Plan

Area of Focus: *Chemistry*

Associate in Science (AS) transfer degree

This Sample Transfer Plan is for students intending to major in Chemistry after transfer but who have not selected a transfer institution. Students who have a specific transfer school in mind should work with BHC and transfer school advisors to ensure the transfer school's requirements are met.

Chemists and materials scientists often work in basic research or applied research. In basic research, chemists investigate the properties, composition, and structure of matter. They also experiment with combinations of elements and their interactions. In applied research, chemists investigate possible new products and ways to improve existing ones. Chemistry research has led to the discovery and development of new and improved drugs, plastics, fertilizers, flavors, batteries, cleaning agents, and thousands of other products. A bachelor's degree in chemistry is needed for entry-level chemist or materials scientist jobs. A degree in chemistry may also be earned by students who plan to pursue professional studies in medicine, pharmacy, veterinary, or clinical laboratory science. Forensic chemists analyze evidence for clues to help solve crimes.

The Associate in Science is suitable for students who need to complete additional math and science courses before transferring. The AS degree accommodates sequenced coursework in these subjects, for example Chemistry I and II. **Transfer schools differ in their acceptance of AS degrees, including possibly the need for additional general education courses after transfer. If the transfer school does not accept the AS, courses can be earned through the Associate in Arts degree instead.**

General Education Recommendations: minimum 37 credits

This section **partially completes** the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC) which is a package of courses meeting general education requirements at more than 100 participating Illinois colleges and universities. Completion of the IAI GECC requires one more Social & Behavioral Science course and one more Humanities or Fine Arts course than what the AS requires.

Communication (9 credits) – *all courses required*
ENG 101 Composition I (3) – *grade 'C' or better required*
ENG 102 Composition II (3) – *grade 'C' or better required*
SPEC 101 Principles of Speech Communication (3)

Social & Behavioral Sciences (6 credits)
Must include courses from two disciplines
Choose two IAI: S courses (3 each)

Humanities (3 credits)
Choose one IAI: H, or HF course (3)

Fine Arts (3 credits)
Choose one IAI: F or HF course (3)

Mathematics (6 credits min. including one approved for the IAI GECC)
MATH 124 Calculus I with Analytic Geometry (4)
MATH 225 Calculus II with Analytic Geometry (4)

Physical & Life Sciences (10 credits min. including one IAI GECC lab course) - *7 credits must be IAI GECC approved*
Physical Sciences – CHEM 101 General Chemistry I (4) **and** CHEM 102 General Chemistry II (4)
Life Science – BIOL 105 General Biology I (5) – *this course is recommended by the IAI Biology Major Panel*

Elective Recommendations: up to 23 credits

This section includes courses appropriate for this area of focus. Because transfer institutions vary in their acceptance of coursework, see Course Transfer Tables and Transferology, or an advisor. IAI courses are identified with an asterisk *.
Seek advising about other elective courses that may support your reasons for choosing this area of focus.

Chemistry Electives
CHEM 203 Organic Chemistry I (5)* **and** CHEM 204 Organic Chemistry II (5)*

Other Electives
PHYS 201 Mechanics and Thermal Physics (5)* **and** PHYS 202 Electricity and Magnetism (5)*
[for students pursuing a B.A. in Chemistry instead of a B.S., PHYS 101 College Physics I (5)* **and** PHYS 102 College Physics II (5) may be acceptable. *Consult transfer school.*]
MATH 226 Calculus III with Analytic Geometry (5)*

Second Language: Consider potential second language admission and/or graduation requirements of transfer schools, which may be satisfied with high school and/or college courses. Consult an advisor.
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60 total credits required for AS degree (General Education + Electives)

BHC develops Sample Transfer Plans as a service to students. Final responsibility for verifying all graduation and transfer requirements rests with the student. PLAN CREATED March 20, 2018; update June 16, 2023.

Non-Western studies graduation requirement. To graduate with the AS degree, include at least one non-Western studies course. The course can simultaneously fulfill a general education requirement in humanities, fine arts, or social and behavioral science, or be taken as an elective. Choose from ANTH 100 or 102; ART 285 or 286; ENG 217, 218 or 219; HIST 222, 141, 142 or 151; HUM 102; IS 200; or MUSC 158.

Learn More About This Area of Focus:

- Get to know Black Hawk College Career Services Phone: 309-796-5626
- Visit Career Coach to Browse Careers. Includes job data and open positions for the greater Quad City region and beyond.
- Browse careers at Collegegrad.com/careers O*Net OnLine Occupational Outlook Handbook Occupational Profiles
- For additional information visit: American Chemical Society; American Academy of Forensic Sciences; American Chemistry Council

Course Transferability:

- Course and transfer requirements can vary among institutions and may differ from the recommendations on this guide. Grades of 'C' or better may be required for a course to transfer, especially courses intended for the major.
- **Students are advised to select a transfer school as soon as possible, typically before completing 30 college-level credits.**

Where to transfer? Explore transfer colleges and universities and their majors:		
Explore Colleges & Universities https://www.bhc.edu/academics/transfer-planning/explore-colleges-universities/	Illinois Institutional Profiles https://illinoispostsecondaryprofiles.com/Home/Index	College Navigator https://nces.ed.gov/collegenavigator/

Degree Timeframe:

- Students who complete an average of 15 college-level credits in four consecutive fall and spring semesters could complete the degree in two years. Students determine their own pace and progress and should consider their work and personal commitments, course difficulty, course pre-requisites, and possible need for additional courses determined by placement assessments. Advisors are available to discuss credit load and schedules appropriate for student goals and circumstances.
- Students transferring before completing the associate degree should discuss Reverse Transfer with their BHC advisor. Black Hawk College will evaluate your college or university work to determine if those credits will fulfill the remaining requirements of the associate's degree**.**

Advising Notes:

- See the current BHC Catalog for all IAI course codes, course descriptions, pre-requisite information, and complete graduation requirements to earn the degree. The area of focus is not stated on student transcripts.
- This guide is not a substitute for advising. All students are encouraged to connect with their assigned BHC advisor each semester.

Semester	Meet with BHC advisor	Registration begins
Summer and Fall	February or March	1st Tuesday in April
Spring & minimester	September or October	1st Tuesday in November

BHC Contacts		
QC Campus Advising / Moline, IL Building 1, Advising Center 309-796-5100 Email advqc@bhc.edu	East Campus Advising / Galva, IL Building A, Room 246 309-854-1709	Natural Sciences & Engineering Department