**Chemistry - Associate in Science (2019-20 Catalog)**

### Developmental Education Courses (if required)
- **☐ ACSL050** Introduction to Academic Literacy
- **☐ ENGL027** Writing Skills Workshop

### Developmental Education Courses

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Gen Ed</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Pre-requisites / Co-requisites</th>
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<tbody>
<tr>
<td>MATH020</td>
<td>Pre-Algebra</td>
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<td></td>
<td>B, M, D</td>
<td></td>
<td>B, M, D</td>
<td>D</td>
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<td>MATH022</td>
<td>Elementary Algebra</td>
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<td>B, M, D</td>
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<td>B, M, D</td>
<td>B, M, D</td>
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<td>MATH026</td>
<td>Intermediate Algebra</td>
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### General Education Requirements

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<th>Course Title</th>
<th>Credits</th>
<th>Gen Ed</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Pre-requisites / Co-requisites</th>
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<tbody>
<tr>
<td>ENGL151L</td>
<td>Diversity</td>
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<td>B, M, D</td>
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<tr>
<td>CHEM201G</td>
<td>Writing Intensive</td>
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### General Education Electives

- **☐ ENGL151L** Diversity
- **☐ CHEM201G** Writing Intensive

### Notes:

- Students that are not CHEM 120 ready for their first semester should take CHEM 011 in its place.
- Students that are not MATH 180 ready for their first semester should take MATH 160 in its place. If the student is not MATH 160 ready they should take MATH 140. It is highly recommended that all students start their math sequence in the first semester.
- Completion of CHEM 201G satisfies the program-related Writing Intensive (WI) requirement. The second Writing Intensive (WI) requirement can be fulfilled with any of the electives in the SIT, SSHB, and AH categories. Writing Intensive sections end in “G” (e.g. PSYC103G).
- Computer competencies are included in various program courses, specifically CHEM 120, 220, 210G, and 251. Thus, completing the program automatically satisfies the computing requirement for this program.
### Course Offerings

**Electives for A.A. & A.S. Degrees**

- **Accounting** – only ACC 100, 101, 151, 201, 202, 251
- **Architecture** – only ARCH 100
- **Art** – only ARTA 111, 116, 162, 291, 292, 293
- **Biological Science** – all BIOS except 281, 282, 283
- **Business** – only BUSA 101, 115, 152, 201, 202, 205, 232, 272
- **Chemistry** – only CHEM 105, 120, 135, 220, 225, 251, 260, 291, 292, 293, 294
- **College Success** – COLS101, 120
- **Communications** – all CMTH except 180, 182, 185, 240, 252
- **Computer/Information Science** – only CISC 101, 104, 115, 125, 225, 230, 270
- **Counseling** – all COUN 100, 291, 292, 293
- **Core** – all DANC
- **Economics** – ECON201, 251G
- **Education** – all EDUC except 105
- **Engineering** – only ENGG 100, 191, 192, 193, 194, 201, 251, 252
- **English** – all ENGL
- **Geography** – all GEOG
- **Geophysics** – all GEOL
- **Health** – all HEAL 150
- **History** – all HIST
- **Hospitality** – only HOSP 101
- **Humanities** – all HUMA
- **Interdisciplinary Studies** – all INTS
- **International Relations** – all INTS
- **Interrelations** – all INTS
- **Journalism** – only JOUR 103
- **Kinesiology** – all KINE
- **Language** – all LANG
- **Literature** – all LITR
- **Mathematics** – all MATH
- **Mechanical Engineering** – all MECH
- **Modern Language** – all MDA
- **Music** – all MUSC
- **Nutrition** – all NUTR
- **Philosophy** – all PHIL
- **Physical Education** – all PHYS
- **Physical Development** – all PHYS
- **Physical Science** – all PHYS
- **Political Science** – all POLS
- **Psychological Science** – all PSYCH
- **Psychology** – all PSYCH
- **Religion** – all RELI
- **Social Science** – all SSCI
- **Sociology** – all SOCA
- **Spanish** – all SPAN
- **Statistics** – all STAS
- **Theater** – all THEA
- **United States History** – all USHIS
- **Urban Studies** – all USUR
- **Visual Arts** – all VART

**Writing Intensive Gen Ed Courses (WI)**

- **Biology** – BIOL105
- **Chemistry** – CHEM211G
- **English** – ENGL201G
- **Philosophy** – PHIL201
- **Physics** – PHYS151
- **Psychology** – PSYCH103
- **Sociology** – SOCA102
- **Spanish** – SPAN101
- **Theater** – THEA117

**For the General Education**

Electives, students must select one course from the list of approved courses in each of the following categories:

- **Arts and Humanities (AH):**
- **Social Science: Societies and Institutions over Time (SIT) and Social Science: Scientific Study of Human Behavior (SSHB).**

In addition, one course must be Writing Intensive. General Education courses offered as writing intensive are noted with a G-WI (e.g. HIST113G is WI, HIST113 is not WI)
**Program Narrative:**
If you are interested in pursuing a bachelor's degree in chemistry or a career in the areas of medicine or scientific research, Northampton's Chemistry program is an affordable way to start. With a curriculum that parallels the first two years of most four-year programs, NCC can save you thousands of dollars on your undergraduate degree. By working closely with an advisor, you can choose the right electives, and stay on track with the requirements of the transfer college of your choice. Another option some graduates have chosen is to enter the job market upon completion of their two-year Chemistry degree. NCC's program prepares you for the range of fields that are based in chemistry, including environmental sciences, manufacturing, biotechnology and more.

**Program Requirements:**
While there are no special admissions requirements for the Chemistry program, certain courses in the program require a background in English, algebra, and chemistry. If you are lacking background in these areas, you should acquire it during the summer preceding your first semester. Northampton's admissions and counseling staff can answer any questions or concerns you may have regarding your enrollment into this program.

**Program Learning Outcomes:** Graduates will be able to:
- Demonstrate the ability to solve problems and explain chemical processes.
- Apply scientific principles and skills in conducting experiments, and in the use of instrumentation and analysis of results.
- Present research in acceptable written and oral format using scientific literature and computer aided analysis
- Demonstrate the ability to work successfully in independent and collaborative settings.
- Demonstrate best practice of safety and laboratory techniques and procedures.

**Transfer Information:**
NCC students have transferred to: Cedar Crest College, East Stroudsburg University, Kutztown University, Lafayette College, Lehigh University, Lock Haven University, Penn State University, University of Hawaii.

**Career Information:**
The A.S. in CHEMISTRY prepares you for these other areas of study: Medical School, Biotechnology, and a multitude of chemistry related industries.