Minneapolis College
Approved Courses for Chemistry Transfer Pathway (AS)

This guide is intended for students completing the Chemistry AS Transfer Pathway. Students who do not intend to complete the 60 credit program should refer to our Transfer Guide for Minneapolis College at http://web.augsburg.edu/registrar/transfer/guides/mctc.pdf.

The table below lists the Minneapolis courses that have approved equivalencies at Augsburg University or fulfill requirements for the B.S. Chemistry (ACS approved) major and general graduation requirements.

<table>
<thead>
<tr>
<th>Minneapolis Course</th>
<th>Augsburg Course</th>
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<tbody>
<tr>
<td>(ENGL1110 or ENGA1110) &amp; ENGL 1111</td>
<td>ENL 111 Effective Writing and ENL 220</td>
</tr>
<tr>
<td>CMST 1005</td>
<td>COM 111 Public Speaking (LAF)</td>
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</table>

**Required courses for AS degree:**

CHEM 1151 Principles of Chemistry 1  
CHEM 1152 Principles of Chemistry 2  
CHEM 2204/2224 Organic Chemistry 1  
CHEM 2205/2225 Organic Chemistry 2  
MATH 1180 Calculus 1  
MATH 1190 Calculus 2  
PHYS 1211 Physics for Science and Engineering 1  
PHYS 1221 Physics for Science and Engineering 2

<table>
<thead>
<tr>
<th>Required courses for AS degree:</th>
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| CHEM 115 General Chemistry I w/lab | CHM 115 General Chemistry I w/lab  
| CHM 116 General Chemistry II w/lab | CHM 116 General Chemistry II w/lab  
| CHM 251 Organic Chemistry I w/lab | CHM 251 Organic Chemistry I w/lab  
| CHM 252 Organic Chemistry II w/lab | CHM 252 Organic Chemistry II w/lab  
| MAT 145 Calculus I | MAT 145 Calculus I  
| MAT 146 Calculus II | MAT 146 Calculus II  
| PHY 121 General Physics I w/lab | PHY 121 General Physics I w/lab  
| PHY 122 General Physics II w/lab | PHY 122 General Physics II w/lab |

Complete 7 credits general education requirements:

Goal area 5: PSYC 1110* and SOCI 1105*  
Goal area 6: Choose ART, MUSC, or THTR introduction course*  
Goal area 7-10: Choose one course

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<tr>
<th>Complete 7 credits general education requirements:</th>
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| Social and Behavioral Science requirement | Social and Behavioral Science requirement  
| Fine Arts requirement | Fine Arts requirement  
| Transfer elective credit | Transfer elective credit  
| *recommended for Augsburg | *recommended for Augsburg |

Total transfer credit from Chemistry AS degree

| Total transfer credit from Chemistry AS degree | 60 |

This information is based on the 2018-19 Augsburg University catalog.  
Last updated January 2019.
Remaining courses to complete Augsburg’s B.S. ACS Certified Chemistry degree:

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course Requirements</th>
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<tbody>
<tr>
<td>47</td>
<td>Major requirements:</td>
</tr>
<tr>
<td>0-4</td>
<td>Augsburg Experience</td>
</tr>
<tr>
<td>13-25</td>
<td>Remaining Augsburg graduation requirements:</td>
</tr>
<tr>
<td>0-8</td>
<td>Elective credit</td>
</tr>
<tr>
<td>128</td>
<td>Final credit count for Augsburg B.S. degree (ACS certified)*</td>
</tr>
</tbody>
</table>

CHM 280 Quantitative Analytical Chemistry w/lab  
CHM 362 Physical Chemistry: Macroscopic Theory  
CHM 368 Physical Chemistry: Microscopic Theory  
CHM 430 Advanced Thermodynamic/Separation  
CHM 440 Advanced Synthesis Lab  
CHM 450 Advanced Spectroscopy and Computational Chemistry Lab  
CHM 464 Advanced Organic Chemistry  
CHM 481 Instrumental Analysis  
CHM 482 Advanced Inorganic Chemistry  
SCI 490 Integrated Science (keystone)  
MAT 245 Calculus III  
Choose one:  
CHM 370 BioOrganic Chemistry  
BIO 369 Biochemistry  
Choose 4 credits of electives (set list)  
Complete 4 semesters of CHM 491 seminars

Refer to the [current catalog](http://www.augsburg.edu/transfer/) for more information. For information about the educational opportunities available at Augsburg, please contact [Augsburg Transfer Admissions](http://www.augsburg.edu/transfer/).

E-mail: transfer@augsburg.edu  
Phone: (612) 330-1001  
http://www.augsburg.edu/transfer/

*Students pursuing a non-ACS B.S., a B.A. degree in Chemistry, or teaching licensure will have variations in the required course work at Augsburg. Please consult with an Augsburg transfer specialist for more details.

Courses must be graded a C- or higher to transfer.