Math

Mathematics is the language of science and a powerful mechanism for describing the world around us. A mathematics degree at Lower Columbia College prepares students for bachelor’s programs in areas such as mathematics, statistics, or math education.

Degree Requirements

- **Communications:**
  15 credits - ENGL& 101 English Composition I AND ENGL& 102 Composition II AND SPCH 110 Intro to Public Speaking OR SPCH 114 Small Group Communication.
- **Quantitative/Symbolic Reasoning Skills:**
  5 credits - MATH& 107 or higher (excluding MATH& 131).
- **Humanities:**
  15 credits – Selected from at least three disciplines on the Distribution List for Transfer Degrees. No more than 5 credits in foreign language at the 100 level, no more than 10 credits from any one discipline. No more than 5 credits in performance/skills courses are allowed.
- **Natural Sciences:**
  15 credits – Selected from at least three disciplines on the Distribution List for Transfer Degrees including 5 credits of lab courses. At least 10 credits must be in physical, biological, and/or earth sciences. No more than 10 credits from any one discipline and no more than 5 credits from Math and Engineering. Courses used to satisfy this requirement may not be used to satisfy the Quantitative Skills requirement.
- **Social Sciences:**
  15 credits – Selected from at least three disciplines on the Distribution List for Transfer Degrees. No more than 10 credits from any one discipline.
- **Diversity:**
  5 credits – From the Diversity Course List. Courses that meet this requirement may also be used toward other graduation requirements. Diversity courses are listed in the quarterly schedule and identified by ‘DIV’ attached to the course title. Example: SOC& 101 – Introduction to Sociology:DIV.
- **Electives:**
  25 credits - See advisor for approved list of electives. No more than 15 credits may be taken from the Restricted Course List.

Recommended Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH&amp; 151*</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 152*</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 153*</td>
<td>Calculus III</td>
<td>5</td>
</tr>
<tr>
<td>MATH&amp; 254*</td>
<td>Calculus IV (was MATH 154)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 210</td>
<td>Elements of Statistics</td>
<td>5</td>
</tr>
<tr>
<td>MATH 215</td>
<td>Discrete Structures</td>
<td>5</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Linear Algebra</td>
<td>5</td>
</tr>
<tr>
<td>MATH 240</td>
<td>Differential Equations</td>
<td>5</td>
</tr>
</tbody>
</table>

Diversity and Distribution Lists are available in the Lower Columbia College Academic Catalog and at lowercolumbia.edu/catalog.

Total transferable credits required to earn this degree: 90 in courses numbered 100 or above with a cumulative grade point average (GPA) of at least 2.0. A course cannot be credited toward more than one distribution or skill area.

*It is recommended that sequence courses be completed at one institution.
Students completing this program should acquire the following skills and abilities:

- Prepared for transfer to a mathematics program at a 4-year college or university.
- Communicate mathematical ideas and concepts using appropriate symbols and terminology.
- Apply mathematical principles to find solutions to real world problems.
- Construct a reasonable argument to defend the overall importance of mathematics.
- Promote evidence-based thinking and decision making.

Revised May 2014 (Effective Fall 2014)
**Planner**

The distribution lists are in the LCC Catalog. If you are online, click on the links below:

- Diversity Course List
- Distribution List for Transfer Degrees
- AA - DTA Unofficial Degree Completion Worksheet
- ONLINE – AA - DTA Unofficial Degree Completion Worksheet

This worksheet is for students who are only taking online courses to earn their AA-DTA.

Advisor: Dawn Draus, 360.442.2564, ddraus@lowercolumbia.edu

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
<th>Summer Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td>Courses</td>
<td>Courses</td>
<td>Courses</td>
</tr>
<tr>
<td>Crs</td>
<td>Crs</td>
<td>Crs</td>
<td>Crs</td>
</tr>
<tr>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total: | Total: | Total: | Total: |

Notes:

Program planning is based on information available at the time of preparation. It is the student’s responsibility to meet with their LCC advisor and with an advisor at the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.

Most four-year universities require one year of a single foreign language as a graduation requirement.