Liberal Arts Transfer
Emphasis: Mathematics Pre-Major Pathway
Mathematics Teaching Pre-Major Pathway

School of Arts and Sciences
Courses offered at Madison Main Campus

For information call: (608) 246-6246 or (800) 322-6282 Ext. 6246

About the Pathway
The Mathematics Pre-Major and Mathematics Teaching Pre-Major Pathways suggest a sequence of classes that lead to both an Associate of Science Degree and a solid foundation in mathematics through the sophomore year for those students wishing to transfer to a four year college as a math major. All math classes transfer one-to-one with UW-Madison and many other four year colleges.

Students apply to Madison Area Technical College as a Liberal Arts Transfer student under the program code of 20-800-1S.

Associate in Science Degree 64 credits

Table: Minimum Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English and Speech</td>
<td>9</td>
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<tr>
<td>Six credits may be in composition - English 1 and one other composition course (English 2 recommended) - and three credits must be in public speaking.</td>
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<tr>
<td>Health/Wellness/Physical Education</td>
<td>1</td>
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<tr>
<td>Humanities/Fine Arts</td>
<td>9</td>
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<tr>
<td>Courses must be from at least two disciplines; one course in literature is required. Select from art appreciation/history, creative writing, drama, film, literature, mass communication, music history or theory, philosophy, and world language. A maximum of three credits of studio/hands-on courses in art, creative writing, drama, and music may be applied.</td>
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<tr>
<td>Mathematics and Natural Science</td>
<td>20</td>
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<tr>
<td>Calculus and Analytic Geometry 1 must be completed. Select one biological science and one physical science; both of the science courses must include a laboratory.</td>
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<tr>
<td>Social Science</td>
<td>9</td>
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<tr>
<td>Select from at least two disciplines: anthropology, economics, government, history, psychology, and sociology.</td>
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<tr>
<td>Electives</td>
<td>16</td>
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<tr>
<td>Select college transfer courses beyond the minimum requirements. A maximum of one credit of a physical education activity course may be selected. A maximum of six credits from a two-year occupational/applied associate degree program may be used.</td>
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<tr>
<td>Ethnic Studies</td>
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<td>One course required. Course may also count toward Humanities/Fine Arts, Social Science, or Electives.</td>
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<tr>
<td>World Language</td>
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<td>May be met with one year in high school with a grade of 'C' or better OR one semester in college. College course may also count toward Humanities/Fine Arts or Electives.</td>
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Information for Humanities at Madison College
Information for Natural Sciences at Madison College

Admission Requirements
To review program admission requirements and application processing dates visit the program website at: http://madisoncollege.edu/associate-in-arts or http://madisoncollege.edu/associate-in-science

Requirements for graduation may depending on the semester in which a student is admitted to their program. Current/continuing students should consult their degree progress report available through their student center account for specific graduation requirements. Program requirements are subject to change.

Curriculum
The courses listed below outline a suggested sequence of math and other liberal arts classes that will lead to an Associate in Science Degree with enough mathematics so that a student may transfer to a four year college as a third-year major. Current/continuing students should consult their degree progress report available through their student center account for specific graduation requirements. Program requirements are subject to change.

First Year
First Semester
20-804-231 *Calculus and Analytic Geometry 1  5
20-801-201 English 1  3
World Language  4
Social Science or Humanities  3
Physical Education  1
Semester Total……………………………………..16

Second Semester
20-804-232 Calculus and Analytic Geometry 2  5
20-801-202 English 2  3
Lab Science  5
Ethnic Studies  3
Semester Total…………………………………16

Summer Semester
20-804-233 Calculus 3  5
Semester Total…………………………………5

Second Year
First Semester
20-804-255 **Techniques in Ordinary Differential Equations  3
10-801-198 Speech  3
Lab Science  5
Social Science or Humanities  3
Semester Total…………………………………14

Second Semester
20-804-256 Elementary Matrix and Linear Algebra  3
Social Science or Humanities  6
Elective  4
Semester Total…………………………………13

*If you enroll in the 2-semester Calculus w/ Algebra & Trigonometry to complete your Calculus I requirement, you will not complete the pathway in 4 semesters.

** Math teaching majors should consult their transfer institutions on whether to take Basic Statistics in place of Differential Equations.

Math-Related Courses that may be used to fulfill the Elective Requirement.

20-804-240 Basic Statistics  4 credits
20-804-265 Introduction to Discrete Mathematics  3 credits

More detailed and updated information on this program may be available at: madisoncollege.edu. The college reserves the right to make changes in the regulations and courses announced in this publication without notice.

Madison Area Technical College provides equal opportunity in education and employment.

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