PROGRAM OVERVIEW

The Associate of Science for Transfer Degree in Mathematics will provide students interested in Mathematics, or any of the related fields such as Engineering, Physics or Statistics, with a strong academic background in mathematics. The courses taken by students in the pursuit of this degree will help develop students’ ability to approach and solve problems in pure or applied mathematics where this is required.

By successfully completing the Associate in Science in Mathematics for Transfer degree requirements at Los Angeles Trade Technical College, students are prepared to transfer to a four-year Mathematics program. Completion of coursework in single and multivariable Calculus, Linear Algebra, Differential Equations and Statistics will meet the lower division mathematics requirements of the California State University. CSU is required to “guarantee admission with junior status to any community college student who meets all of the requirements”. This degree is intended for students who are interested in transferring to a four-year university and majoring in Mathematics, Engineering, Physics and Statistics.

The Associate in Science in Mathematics for Transfer degree requirements are as following.

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Completion of a minimum of 22 semester units from the list of required and Major Electives in the mathematics major with a grade of C or better or a “P” if the course is taken on a “pass-no pass” basis (title 5 § 55083).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree program, students are able to:

- Apply the techniques of both differential calculus and integral calculus to problems involving functions of both one and several variables.
- Approach and solve problems in pure and applied mathematics where this is required.
- Use calculus to solve applications related to mathematics, engineering, physics, and statistics.
- Solve higher order constant-coefficient linear differential equations and systems of differential equations and use these methods to solve applied problems.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 265</td>
<td>5</td>
</tr>
<tr>
<td>MATH 266</td>
<td>5</td>
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<tr>
<td>MATH 267</td>
<td>5</td>
</tr>
<tr>
<td>MATH 270</td>
<td>3</td>
</tr>
<tr>
<td>MATH 275</td>
<td>3</td>
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</tbody>
</table>

MAJOR ELECTIVES

Select at least 7 units from the courses below

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MATH 270</td>
<td>3</td>
</tr>
<tr>
<td>MATH 275</td>
<td>3</td>
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</tbody>
</table>

USEFUL LINKS

LATTIC Catalog
http://college.lattc.edu/catalog/

LATTC Financial Aid Office
http://college.lattc.edu/financialaid/

LATTIC Counseling Department
http://college.lattc.edu/counseling/

Graduation Plan A
http://college.lattc.edu/planA

Graduation Plan B
http://college.lattc.edu/planB

Mathematics Department
http://college.lattc.edu/math/

You can enroll in these classes by logging on to the Student Information System at https://college.lattc.edu/register

For additional information consult a LATTC college counselor.