Los Angeles Mission College 24-25

Mathematics Associate Degree for Transfer (ADT)

# ADT: Mathematics

Upon successful completion of the Associate in Science in Mathematics for transfer, the student will demonstrate an understanding of Calculus with Analytic Geometry of single and several variables, Linear Algebra, Ordinary Differential Equations, as well as Programming in C or C++ languages. This coursework will prepare students to transfer to California State University system and major in mathematics, engineering, or related fields. Students who complete this degree will be guaranteed admission with junior status to the California State University system, although not a particular campus or major. Students can use the [ADT Search by CSU Campus](https://www.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx) to view which CSU campuses accept ADT degrees in their major.

## **Transfer Requirements**

Students receiving this transfer degree must meet the following requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including completion of:
   1. The Intersegmental General Education Transfer Curriculum (IGETC) **OR** the California State University General Education (CSUGE)
   2. The major coursework listed below with a grade of “C” or better in each course required for the major or a grade of “P” if the major course is taken on a “P/NP” basis.
2. Obtain of a minimum cumulative grade point average of 2.0

### **Required Core Courses (15 units):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course | Title | Units | Grade | IP | Need |
| MATH 261 | Calculus I | 5 |  |  |  |
| MATH 262 | Calculus II | 5 |  |  |  |
| MATH 263 | Calculus III | 5 |  |  |  |

### **List A**

Select ONE of the following courses (3 units):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course | Title | Units | Grade | IP | Need |
| MATH 270 | Linear Algebra | 3 |  |  |  |
| MATH 275 | Differential Equations | 3 |  |  |  |

### **List B**

Select ONE of the following courses (3-4 units):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course | Title | Units | Grade | IP | Need |
| List A course not already used | See List A |  |  |  |  |
| CS 116  Or  CS 216 (formerly CO SCI 440) | Programming in C++  Object-Oriented Programming in C++ | 3  3 |  |  |  |
| MATH 227  Or  MATH 227A+B  Or  MATH 227S  Or  STAT 101 | Statistics  or  Statistics I + II  or  Statistics with Support  or  Statistics for the Social Sciences | 4  2/2  4  4 |  |  |  |

Total Units for the major: 21-22