



## PROGRAM OF STUDY

### Mathematics Associate in Science for Transfer

By successfully completing the courses for Mathematics major and Associate in Science in Mathematics for Transfer at Orange Coast College, the student will gain a practical and theoretical understanding for future studies in mathematics. Students will be prepared for a baccalaureate degree in Mathematics. Students intending to transfer to a particular CSU campus or to a university or college that is not part of the California State University system should consult with a counselor when planning to complete the degree to verify that a particular college acknowledges and accepts the Associate in Science in Mathematics for Transfer conferred by Orange Coast College.

#### Program Outcomes:

##### **OUTCOME 1:**

By successfully completing the courses for Mathematics major and Associate in Science in Mathematics for Transfer at Orange Coast College, the student will gain a practical and theoretical understanding for future studies in mathematics.

### Courses Needed for Mathematics (Transfer)

Required Core (12-13 units):	Units
MATH A180 Calculus 1 <b>or</b> MATH A180H Calculus 1 Honors	4.0
MATH A185 Calculus 2 <b>or</b> MATH A185H Calculus 2 Honors	4.0
MATH A280 Calculus 3 <b>or</b> MATH A280H Calculus 3 Honors	4.0/5.0
<b>Subtotal</b>	<b>12.0 – 13.0</b>

List A – select one course from the following:	Units
MATH A235 Applied Linear Algebra	3.0
MATH A285 Introduction to Linear Algebra and Differential Equations <b>or</b> MATH A285H Introduction to Linear Algebra and Differential Equations Honors	4.0/5.0
<b>Subtotal</b>	<b>3.0 – 5.0</b>

List B – select one course from the following:	Units
MATH A160 Introduction to Statistics <b>or</b> MATH A160H Introduction to Statistics Honors	4.0
MATH A230 Introduction to Discrete Mathematics	5.0
PHYS A185 Calculus Based Physics: Mechanics <b>or</b> PHYS A185H Calculus Based Physics: Mechanics Honors	4.0
CS A150 C++ Programming Language 1	4.0
CS A170 Java Programming 1	4.0
<b>Subtotal</b>	<b>3.0 – 5.0</b>

<b>Program Major Units: 19-23</b>	<b>Units</b>
<b>CSU or IGETC General Education Breadth: 37-39</b>	
<b>Subtotal</b>	<b>34.0 – 36.0</b>

<b>Transfer elective units as needed to satisfy 60-unit degree requirement</b>	<b>Units</b>
<b>Subtotal</b>	<b>Varies</b>

**Total Units 59.0 – 60.0**