

MATHEMATICS - ASSOCIATE IN SCIENCE TRANSFER DEGREE

Plan Code: 5500C

Students who are interested in becoming a scientist or engineer should consider obtaining the Associate in Science in Mathematics for Transfer degree. Mathematics is the underlying language of all of the physical and life sciences as well as engineering and business. Math is also the architecture upon which modern computers are based. The purpose of the Associate in Science in Mathematics for Transfer degree is threefold.

1. Students who complete the Associate in Science in Mathematics for Transfer degree will have a solid mathematical foundation with semesters of transferable university credit under their belt.
2. Students who complete the Associate in Science in Mathematics for Transfer degree have also taken a transferable elective course selected from the field of their choice.
3. Students who complete the Associate in Science in Mathematics for Transfer degree will receive priority admission with junior status into the California State University system.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Analyze given information, then determine and execute a course of action.
- Analyze and interpret results.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number	Course Title	Units
REQUIRED CORE COURSES		
MATH 60/60H	First Calculus Course	5
MATH 70/70H	Second Calculus Course	5
MATH 80	Third Calculus Course	5
Subtotal Units		15
IN ADDITION, complete ONE (1) course from LIST A:		
LIST A		
MATH 84	Intro Differential Eqns and Linear Alg (5)	
Subtotal Units		5
IN ADDITION, complete ONE (1) course from LIST B:		
LIST B		
CS 11	Introduction to Computer Science- C++ (3)	
CS 21	Introduction to Computer Science-Java (3)	
ENGR 54	Computer Methods (3.5)	
PHYS 3A	Physics for Sci. & Eng. - Mechanics (5.5)	
STAT 1/1H	Elementary Statistics (4)	
Subtotal Units		3-5.5
Required Subtotal		23-25.5
Complete one of the following: ¹		37

IGETC Pattern (Plan C) (<https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/>)

Transferable Electives (as needed to reach 60 transferable units) ²

Degree Total **60**

¹ Units for the major may be double-counted for IGETC; see counselor for limitations.

² Elective units from course(s) numbered 1-99, if needed, to reach 60 transferable units.

To earn the Mathematics - Associate in Science Transfer Degree, a student must complete 60-semester units that are eligible for transfer to a CSU that consist of the IGETC pattern and the major requirements. Students must have a minimum GPA of 2.0 in all CSU-transferable coursework to receive an associate degree for transfer and all courses in the major must be completed with a C or better. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements.