

# **ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER**

Curriculum Guide for Academic Year 2021-2022

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Resources available for transfer students: Academic Counselors at LAC 562-938-4561 or at PCC 562-938-3920 Transfer Center at LAC 562-938-4670 or at PCC 562-938-3920

#### ASSIST web site at www.assist.org. Program of study leading to: Associate in Science (AS-T) Degree CSU C-ID **IGETC** Completed In **Units REQUIRED COURSES:** Descriptor | GE Area **Progress** Grade Area + MATH First Calculus Course/Honors MATH 210 B4 5 60/60H + MATH Second Calculus Course/Honors MATH 220 B4 2 5 70/70H B4 2 5 + MATH 80 Third Calculus Course MATH 230 **Subtotal Units** 15 IN ADDITION, Complete 1 Course from LIST A: LIST A + MATH 84 Intro Differential Egns & Linear Algebra MATH 240 B4 2 5 **Subtotal Units** 5 IN ADDITION, Complete 1 Course from LIST B: LIST B + PHYS 3A PHYS 205 Physics for Sci. & Eng—Mechanics B1 5 5.5 † ENGR 54 Computer Methods 3.5 + CS 11 Introduction to Computer Science - C++ COMP 122 4 + CS 21 **COMP 122** 4 Introduction to Computer Science - Java + STAT 1/1H Elementary Statistics/Honors MATH 110 B4 4 Subtotal Units 3.5-5.5 **TOTAL UNITS 23.5-25.5**

## IN ADDITION to the above major courses, students are also required to obtain general education certification and meet other degree requirements as specified below.

#### **General Education Certification Requirements**

Either completion of the California State University General Education-Breadth pattern (CSU GE Breadth) OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern IS REQUIRED. For general education patterns, visit the following web site: http://osca.lbcc.edu/genedplan.cfm, or the LBCC catalog. After completion of the General Education Pattern students must request GE certification. Consult with a counselor for more information about the GE Certification process.

#### Other Degree Requirements

1. Minimum Unit Requirements: Complete a minimum of 60 transferable units. Please note that additional units may be required to meet this minimum based upon courses selected to fulfill CSU-GE Breadth Pattern or the IGETC Pattern.

if following CSU-GE Bre	eadth Pattern	if following IGE IC Pattern		
	Units		Units	
Math Major	23-25.5**	Math Major	23-25.5**	
CSU-GE Breadth	39	IGETC Pattern	37	
Minimum Required	60	Minimum Required	60	

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- \*\*Double-Counting of Units: SB 1440 Regulations allow for double-counting of major requirements towards CSU- GE Breadth or IGETC patterns.
- Minimum grade and GPA requirements: Maintain an overall grade point average (GPA) of 2.0 ("C" average) in all CSU-transferable coursework. For the major complete each course with a grade of "C" or better, or "P" if course is graded on a P/NP basis.
- Residence for the Degree: Complete at least 12 units in residence at LBCC.
- Degree Application: Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at http://admissions.lbcc.edu/. Refer to the Schedule of Classes (http://schedule.lbcc.edu) and click the "Important Dates" link to view the actual deadline for each semester.
- The requirements for general education/proficiency and the field of concentration (major) need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout. See the catalog for definition of "continuous enrollment".

## Suggested Sequence of Classes

This is not an educational plan, as course offerings, student schedules, and circumstances vary. Students must meet all the prerequisites in order to be eligible for the sequence of courses.

A suggested full-time sample sequence of courses for the program includes:

†	First Semester MATH 60		<u>Units</u> 5	†	Second Semester PHYS 3A		<u>Units</u> 5.5
•		Semester Total	5	·		Semester Total	5.5
+	Third Semester MATH 80		5	+	Fourth Semester MATH 84		5
١.	111111111111111111111111111111111111111	Semester Total	5	ı		Semester Total	5

## **Program Mission and Outcomes**

The mission of the Associate in Science in Mathematics for Transfer program is to give those students who aspire to become scientists or engineers the opportunity to explore these fields of study here at Long Beach City College, and to supply students with the necessary lower division preparation at the community college.

#### **Program Outcomes:**

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- To serve students to meet graduation for an Associate in Science in Mathematics for Transfer.
- To serve students to meet career/transfer requirements.

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† This course has a prerequisite; prerequisite courses must be completed with at least a "C" or "P" grade. Refer to the General Catalog (http://www.lbcc.edu/cat/index.html), the Schedule of Classes (http://schedule.lbcc.edu/), or the online Credit Course Outline (http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/) for specific prerequisite information.

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