

Mathematics (LAM)

This program of study is recommended for transfer students planning to earn a baccalaureate degree with a major in mathematics. It is recommended that students entering the program have four units of high school academic math.

The Associate in Arts (A.A.) degree is awarded upon completion of the requirements for this program.

Students who complete the LAM program will:

- Demonstrate knowledge and skills in single and multivariable calculus.
- Communicate mathematics with understanding and clarity.
- Use technology to support problem solving and an understanding of mathematical topics.
- Read and understand formal mathematical proofs and construct a well-formed mathematical proof.

Courses should be selected in consultation with an advisor.

First Semester

Course No.	Descriptive Title	Credit Hours
CPS 141	Introduction to Computer Sciences (c)	4
ENG 101	Composition I	3
MAT 221	Calculus I	4
SPE 101 OR THE 120	Performing Skills for the Classroom OR Public Speaking	3
TOTAL		14

Second Semester

Course No.	Descriptive Title	Credit Hours
ENG 102	Composition II	3
American History (Appendix D)		3
MAT 222	Calculus II	4
MAT 214	Discrete Mathematics Using Proofs	3
Natural Science (Appendix B) (a)		4
TOTAL		17

Third Semester

Course No.	Descriptive Title	Credit Hours
BHS 103	Social Problems in Today's World	3
MAT 223	Calculus III	4
MAT 230 OR MAT 215 OR MAT 224	Probability and Statistics Introduction to Linear Algebra	3-4

	Differential Equations	
Natural Science (Appendix B) (a)		4
TOTAL		14-15

Fourth Semester

Course No.	Descriptive Title	Credit Hours
MAT 230 OR MAT 215 OR MAT 224	Probability and Statistics Introduction to Linear Algebra Differential Equations	3-4
General Education Elective (b)		3
Electives (c)		6-7
Free Elective (d)		3-4
TOTAL		15-18
	TOTAL CREDIT HOURS	60-64

NOTES:

a. A sequence in a natural science is required. Applicable sequences are:

Biology: BIO 105-106
Chemistry: CHE 121-122
Physics: PHY 151-152

LAM students should meet with the LAM program chair to discuss the appropriate science courses to take in order to meet the requirements of the transfer school. Some transfer schools have specific science course requirements for mathematics majors. For some transfer schools, the PHY121-122 sequence may be applicable.

b. General Education Elective: Courses applicable to this program are listed in the General Education Appendices E, F, H (if THE 120 was not taken), and I, and students must select from one appendix in order to guarantee that they have courses from a total of 7 appendices. See the list of the General Education Appendices.

c. Courses applicable to this program are: (a) specific courses listed above; (b) courses applicable in designated programs; CPS 142, CPS 231, or WFE101. Students who plan to pursue a degree in applied mathematics should take CPS142, and also take the third math course from MAT 230, MAT 215, M AT224. Those students who plan to pursue a degree in actuarial sciences should take ECO 201 and ECO 202.

d. Read a full discussion of the free elective requirement. Students must select a course outside of the MAT subject area.