



CURRICULUM GUIDE 2019-2020

PURE MATHEMATICS

Certificate of Achievement in Pure Mathematics

The Certificate of Achievement in Pure Mathematics provides students with the mathematical background required to succeed in subsequent courses in math, physics, computer science, and engineering. This certificate includes Linear Algebra, which is a course that provides students with their first exposure of the theoretical math seen in upper division courses. By earning this certificate, students have demonstrated that they possess the mathematical skills that are necessary to begin upper division coursework in pure mathematics. Completion of the Certificate of Achievement in Pure Mathematics represents a completion of 18 units applicable towards the units needed to attain an Associate in Science in Mathematics for Transfer.

Requirements for Certificate of Achievement:

- a) Complete Major Field courses.
- b) Complete at least six units at Ohlone College
- c) Maintain a 2.0 grade point average in Major Field courses.

Student Learning Outcomes

1. Learn the foundation mathematics necessary for further studies in engineering, mathematics, and science.
2. Demonstrate proficiency at problem solving techniques.
3. Demonstrate a rudimentary level of knowledge for the construction of formal proofs.

MAJOR FIELD

MATH-101B	Calculus with Analytic Geometry	5
MATH-101C	Calculus with Analytic Geometry	5
MATH-103	Introduction to Linear Algebra	3
MATH-104	Differential Equations	<u>5</u>
Total Required Units:		18