



## CURRICULUM GUIDE 2014-2015

### MATHEMATICS: PURE

Certificate of Accomplishment in Mathematics: Pure

#### Requirements for Certificate of Accomplishment:

- a) Complete satisfactorily the courses listed for the particular certificate.
- b) Complete at least 50% of the required units at Ohlone College.
- c) Maintain a 2.0 grade point average.

#### MATHEMATICS: PURE

The certificate in Pure Math provides students with the mathematical background required to succeed in subsequent courses in math, physics, computer science, and engineering. This certificate differs from that in Applied Math due to the inclusion of Linear Algebra. Linear Algebra provides students with what is often their first taste 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.

#### 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.

MATH-101C	Calculus with Analytic Geometry	5
MATH-103	Introduction to Linear Algebra	3
MATH-104	Differential Equations	<u>5</u>
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