

Subj: REPORT OF CURRICULUM REVIEW OF APPLIED MATHEMATICS
(CURRICULUM 380)

**2014-2016 EDUCATION SKILLS REQUIREMENTS
APPLIED MATHEMATICS
4100P
380**

1. Curriculum Number: 380
2. Curriculum taught at NPS
3. Students are fully Funded
4. Curriculum Length in Months: 24
5. Months the program starts: Jan, Jun
6. APC Required 324
7. Community Managers have agreed to allow billets to be coded for 590 and Officers to be educated for this curriculum.

ESR 1: Fundamental Areas

The officer will complete courses in the following fundamental areas of Mathematics, developing sufficient mastery to qualify for teaching Mathematics at the undergraduate level: Single, Multivariate, and Vector Calculus, Linear Algebra and Algebraic Structures, Logic and Discrete Mathematics, Real and Complex Analysis, Modern Applied Algebra and Number Theory, Numerical Analysis, Mathematical Modeling in Applied Mathematics, and Ordinary and Partial Differential Equations.

ESR 2: Applications

The officer will become well-versed in the applications of mathematics to real world problems of interest to the military, enhancing performance in post-graduate operational billets and policy making positions.

ESR 3: Computer Skills

The officer will acquire the ability to use higher-level structured programming languages and current technologies.

ESR 4: Communications and Research Skills

The officer will perform independent research in an area of Mathematics, develop written and oral presentation skills, and gain instructional experience.

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ESR 5: Joint Professional Military Education

Graduates will complete the Navy Joint Professional
Military Education Phase I requirements.