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| logo_1.jpg College of Science (CSCI)  MAJOR: Math, BS  CSCI EETF (Educational Effectiveness Task Force) |

**PROGRAM STUDENT LEARNING OUTCOMES**

2014

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| Students graduating with a BS from Cal State East Bay will be able to: | | | I.L.O Alignment |
| 1 | Apply the definitions, techniques and theorems of abstract mathematics | | 1,6 |
| 2 | Apply the definitions, techniques and theorems of applied mathematics | | 1,6 |
| 3 | Apply mathematical algorithms to solve problems, both individually and in teams | | 1,2,4.6 |
| 4 | Creatively conjecture and rigorously write, analyze and critique proofs | | 1,6 |
| 5 | Communicate mathematics to others in written and/or oral form with precision, clarity and organization | | 1,2,4,6 |
| 6 | Apply techniques of at least one area of mathematics in depth | | 1,6 |

Students taking Option B or C for the Bachelor in Mathematics receive focused emphasis on particular PLOs as follows:

• The Applied Mathematics Option emphasizes PLOs #2, 3 & 6 above.

• The Mathematics Teaching Option emphasizes #1, 2, & 5 above.