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| logo_1.jpg College of Science (CSCI) MAJOR: Computer Science, 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 knowledge of mathematics and computational theory to appropriate problems in computer science | 1,6 |
| 2 | Analyze a problem, and identify and define the resources and requirements needed for its solution | 1,2,6 |
| 3 | Design and implement a program to meet stated needs | 1,2,6 |
| 4 | Develop and maintain computer-based systems, processes, and platforms | 1,6 |
| 5 | Recognize and distinguish the mechanisms, components and architecture of computing systems  | 1,6 |
| 6 | Employ current techniques, skills, and tools necessary for computing practice  | 1,2,5,6 |
| 7 | Identify professional, ethical, legal, and security issues and responsibilities and the impact of computing on individuals, organizations, and society  | 3,5,6 |
| 8 | Perform successfully on teams to accomplish a common goal, and communicate effectively in written and oral form  | 2,3,4,5,6 |

Students taking one of the Options for the Bachelor in Computer Science receive focused emphasis on particular PLOs as follows:

• The Computer Engineering Option emphasizes PLOs #4, #5 and #6 above.

• The Networking and Data Communications Option emphasizes #1, #3, and #4 above.

• The Software Engineering Option emphasizes #1, #2, #3 and #6 above.