



University of California, Santa Barbara
Program Learning Outcomes

B.S. in Computer Science

The Computer Science B.S. program enables students to, by the time of graduation:

1. *Analyze complex computing problems and apply principles of computing and other relevant disciplines (e.g., mathematics and logic) to identify solutions.*
2. *Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements (e.g., performance and scalability) and demonstrate an understanding of the design trade-offs involved.*
3. *Communicate effectively in a variety of professional contexts (e.g., design proposals, technical documentation, and presentations).*
4. *Recognize professional responsibilities (e.g., the impact of computing on individuals, organizations, and society) and make informed judgments in computing practice based on legal and ethical principles.*
5. *Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline (e.g., software development or computing research).*