

# Goals and Objectives for the BA in Computer Science

## Objectives (Goals)

1. To provide a solid foundation in *computer science* that supports an interdisciplinary education within a liberal arts framework and prepares students for professions that include the computing sciences as a component.
2. To help students develop the ability and mental precision necessary to analyze, think critically, consider alternatives, and finally to be creative problem solvers.
3. To provide courses and personnel that view computer science as part of the human endeavor, that is, to see computer science in relation to more general intellectual development and to the needs of society.
4. To foster an aptitude and desire for life-long learning.

In order to satisfy these objectives we have several outcomes which are expected of our students at the time of graduation. These outcomes are regularly monitored.

## Outcomes:

1. The ability to critically analyze a problem, determine and specify the computing requirements of the problem and evaluate proposed solutions using sound computing metrics.
2. An ability to work effectively in small groups on medium scale computing projects.
3. An ability to use oral and written communication effectively.
4. A recognition of the need to engage in life long learning.
5. An ability to understand the social and ethical implications of working as a professional in the field of computer science.
6. An ability to use current tools and methodologies in computing practice.

The relationship between these outcomes and the program objectives are mapped below:

<b>Objective</b>	<b>Outcome(s)</b>
1. Prepare	2, 3, 5
2. Solve	1, 6
3. Respect	5
4. Life long	4