

COMPUTER SCIENCE

Bachelor of Science

THE UNIVERSITY OF TEXAS AT BROWNSVILLE and TEXAS
SOUTHMOST COLLEGE
COLLEGE OF SCIENCE, MATHEMATICS AND TECHNOLOGY

The educational objectives of the Computer Science program are that graduates of the program will be:

Program objective 1:

Are able to use current scientific techniques, including mathematical foundations, algorithms principles, and computer science theory in the modeling and design of computer-based systems, to identify, analyze and define a solution to a problem using computing involving different levels of difficulty.

Program objective 2:

Possess sufficient knowledge of computer system organization and architecture to design software systems of varying complexity to meet their constituent's needs.

Program objective 3:

Work effectively using teamwork skills in completing computing projects.

Program objective 4:

Communicate effectively with addressees verbally.

Program objective 5:

Communicate effectively using effective and grammatically correct written skills

Program objective 6:

Be aware of the professional need to continue to keep current in computer science and recognize the need for continuous improvement.

The educational Outcomes of the program will be:

Program Outcome 1:

Students are able to write a program to solve computer problem using mathematic formulas equal to or beyond the calculus level

Program Outcome 2:

Students are able to design a computer system, including designing the computer architecture and software for an industry based problem

Program Outcome 3:

Students are able to contribute effectively while working in teams in analyzing and solving a computer problem,

Program Outcomes 4:

Students are able to present effective oral presentations in class.

Program outcome 5:

Students are able to answer discussion questions in exams using effective and grammatically correct written skills

Program Outcome 6:

Students are able to verify that the methodologies used to solve their assigned computing problems are current.