

Mission, Objectives, Outcomes

IIT Mission (<http://www.iit.edu/about/mission.html>)

To educate people from all countries for complex professional roles in a changing technological world and to advance knowledge through research and scholarship.

Undergraduate Program Objectives (<http://www.iit.edu/~nca/iitobjectives.doc>)

The general goals of the undergraduate programs are to educate individuals for careers in professional practice and to provide the basis for advanced study. The institutional objectives for student learning have been defined by the faculty in terms of the attributes desired in an IIT graduate. These may be summarized as:

- Proficiency in a professional discipline.
- Skill in: Oral, written and graphical communication; the use of information technologies; quantitative analysis and computation; working effectively in groups.
- An appreciation of human behavior, culture, interaction & organizations through studies in the humanities and social sciences.
- An understanding of the interprofessional environment in which professionals function, including the ethical dimensions of professional practice.
- A basic understanding of science and engineering and their linkages to key technologies.
- An enthusiasm for the educational process and for professional practice.

College of Science and Letters Mission Statement (<http://www.iit.edu/~csl/about/mission.html>)

- Deliver superior educational and research opportunities through B.S., M.S. and Ph.D. degree programs as well as certificate, professional masters, and short-course programs.
- Provide responsive, appropriate service courses for students from other academic units at IIT.
- Engage in nationally and internationally recognized research and scholarship in biology, chemistry, computer science, mathematics and science education, humanities, mathematics, physics, and social sciences.
- Promote interdisciplinary and collaborative research among faculty and students within and outside of IIT and the college.

Department of Computer Science Mission Statement

The IIT Department of Computer Science will be an exciting place to perform high-impact research and to learn about the latest developments in the constantly developing field of Computer Science. The department will ensure that students graduate knowing the fundamentals of Computer Science. We will be an excellent department as measured by:

- Quality, breadth, and impact of our research.
- Quality of teaching.
- Excellent preparation of our graduates for leadership in the profession and higher education.
- Dedication of our department staff to outstanding service, and our commitment to recognize everyone's contribution to our success.

Department of Computer Science Objectives

We will achieve these goals by:

- Housing laboratories, such as our next generation search lab, that are unique in the United States in their singular focus on a specific, high impact area research area.
- Constant innovation of our curriculum so it incorporates ever-changing CS technology.
- Hiring, nurturing, and retaining outstanding and energetic faculty who strengthen our existing expertise, while positioning us to lead in the important emerging research areas of the discipline in the 21st Century.
- Maintaining high selectivity in our graduate programs by choosing students with the potential to be leaders in the fields as determined by their evidence both of academic achievement and diversity of life experiences.
- Attracting the best undergraduate students on the IIT campus, while continuously reinvigorating our undergraduate program with the latest developments in the field

Each faculty member should:

- Share the results of scholarship with the computing or computing education community
- Keep current in the field and in areas related to normal teaching assignments in particular.
- Continue to improve in effective teaching.
- Serve as mentors and advisors to students throughout their time at IIT.
- Take an active role in curriculum and program development.
- Participate in professional organizations relevant to their interests.

B.S. in Computer Science Program Objectives

The Bachelor of Science in Computer Science program has been offered at IIT since 1971. In addition to the Department of Computer Science Objectives, our goal has been and continues to be a high quality degree program that produces computer science graduates students who are prepared to:

- Enter professional careers and/or graduate programs and make intellectual contributions to it.
- Embark on lifelong learning for personal and professional growth.

B.S. in Computer Science Expected Outcomes

Each graduate of the program should be able to:

- Have a strong theoretical as well as practical background in Computer Science including recognizing the importance of abstraction.
- Analyze, design, implement, and test an object-oriented software solution to “real world” problems including appreciating the value of efficient design created to meet clearly developed requirements.
- Write technical documents such as specifications, design and users manuals in appropriate formats.
- Orally present deliverables related to Computer Science.
- Be prepared to enter a top-ranked graduate program in Computer Science.
- Have an appreciation of human behavior, culture, interaction and organization through studies in the humanities and social sciences.
- Have a basic understanding of science and engineering and their linkages to key technologies.
- Have an enthusiasm for the educational process and for professional practices.
- Be able to work in interdisciplinary groups consisting of non-technical and technical members.

B.S. in Computer Information Systems Program Objectives

The Bachelor of Science in Computer Information Systems program emphasizes the use of computers as sophisticated problem-solving tools. In addition to the Department of Computer Science Objectives, our goal has been and continues to be a high quality degree program that produces computer information systems graduates students who are prepared to:

- Enter professional careers and make intellectual contributions to it.
- Embark on lifelong learning for personal and professional growth.

B.S. in Computer Information Systems Expected Outcomes

Each graduate of the program should be able to:

- Have a strong practical background in Computer Science with a focus in another discipline.
- Analyze, design, implement, and test an object-oriented software solution to “real world” problems including appreciating the value of efficient design created to meet clearly developed requirements.
- Write technical documents such as specifications, design and users manuals in appropriate formats.
- Orally present deliverables related to Computer Science.
- Blend their computer science abilities with skills specific to another domain to solve problems in that domain.
- Have an appreciation of human behavior, culture, interaction and organization through studies in the humanities and social sciences.
- Have a basic understanding of science and engineering and their linkages to key technologies.
- Have an enthusiasm for the educational process and for professional practices.
- Be able to work in interdisciplinary groups consisting of non-technical and technical members.