Computer science is an important basis for many activities and is a
natural and powerful partner with a variety of other disciplines. The
College offers instructional and research programs in many areas,
including algorithms and data structures, intelligent systems and
robotics, computer architecture, cognitive science, databases, distributed
and parallel systems, educational technology, graphics and visualization,
human-computer interaction, information security, information systems,
networking and telecommunications, operating systems, parallel
architectures, programming languages, software engineering, and
theories of automata and computation.

Beginning in fall 2006, the undergraduate program was organized
around the Threads™ program developed by College of Computing
faculty. A Thread™ is an intuitive, flexible, and mutually strengthening
set of courses that allows students to craft a distinctive future in any
computing-related field. Based on their particular interests, students will
choose two Threads™ consisting of computing combined with modeling
and simulation, devices, theory, information internetworks, intelligence,
media, people, or platforms in order to weave a technical degree with a
broad collection of skills and learning experiences they need to thrive in a
globally competitive world. This approach allows the computing program
to retain its strong computer science foundations yet encourages
partnerships with the multitude of disciplines affected by computing and
technology.

The College conducts an increasing number of interdisciplinary research
and instructional programs jointly with other campus units and operates
three centers of interdisciplinary research for the campus:

• The Center for Experimental Research in Computer Systems (CERCS);
• The Graphics, Visualization, and Usability (GVU) Center; and
• The Georgia Tech Information Security Center (GTISC).

The College’s operations are housed in parts of five separate buildings on
campus, including the College of Computing building.

The College awards:

• bachelor’s degrees in computer science (CS),
• bachelor’s degrees in computational media (jointly with the School of
  Literature, Media, and Communication),
• master’s degrees in computer science,
• master’s degrees in information security, and
• doctoral degrees in computer science and human-centered
  computing.

The College offers an undergraduate CS minor. The College also offers
the Master’s degree in human-computer interaction in collaboration with
the School of Literature, Media, and Communication and the School of
Psychology. The College is a sponsor of a multidisciplinary program
in Algorithms, Combinatorics, and Optimization, an approved doctoral
degree program at Georgia Tech. Master’s and doctoral degrees in
bioengineering can be pursued through the College as one of the units
participating in the Institute-wide interdisciplinary Bioengineering
Program. A doctoral degree in bioinformatics can also be pursued
through the College in conjunction with the School of Biology.

The following undergraduate computing programs are accredited by the
www.abet.org):

• Bachelor of Science in Computer Science (http://
  www.catalog.gatech.edu/programs/computer-science-bs)
• Bachelor of Science in Computational Media (http://
  www.catalog.gatech.edu/programs/computational-media-bs)
• Algorithms, Combinatorics, and Optimization. PhD (http://
  www.catalog.gatech.edu/programs/algorithms-combinatorics-
  optimization-phd)
• Analytics. MS (http://www.catalog.gatech.edu/programs/analytics-
  ms)
• Bioengineering. MS (http://www.catalog.gatech.edu/programs/
  bioengineering-ms), PhD (http://www.catalog.gatech.edu/programs/
  bioengineering-phd)
• Bioinformatics. MS (http://www.catalog.gatech.edu/programs/
  bioinformatics-ms), PhD (http://www.catalog.gatech.edu/programs/
  bioinformatics-phd)
• Computational Media. BS (http://www.catalog.gatech.edu/programs/
  computational-media-bs)
• Computational Science and Engineering, MS (http://
  www.catalog.gatech.edu/programs/computational-science-
  engineering-ms), PhD (http://www.catalog.gatech.edu/programs/
  computational-science-engineering-phd)
• Computer Science. BS (http://www.catalog.gatech.edu/programs/
  computer-science-bs), MS (http://www.catalog.gatech.edu/
  programs/computer-science-ms), PhD (http://
  www.catalog.gatech.edu/programs/computer-science-phd)
• Computing and Business. Minor (http://www.catalog.gatech.edu/
  programs/minor-computing-business)
• Computing and Devices. Minor (http://www.catalog.gatech.edu/
  programs/minor-computing-devices)
• Computing and Information Internetworks. Minor (http://
  www.catalog.gatech.edu/programs/minor-computing-information-
  internetworks)
• Computing and Intelligence. Minor (http://www.catalog.gatech.edu/
  programs/minor-computing-intelligence)
• Computing and People. Minor (http://www.catalog.gatech.edu/
  programs/minor-computing-people)
• Computing & Systems and Architecture. Minor (http://
  www.catalog.gatech.edu/programs/minor-computing-systems-
  architecture)
• Computing and Theory. Minor (http://www.catalog.gatech.edu/
  programs/minor-computing-theory)
• Cybersecurity. MS (http://www.catalog.gatech.edu/programs/
  cybersecurity-ms)
• Human-Computer Interaction. MS (http://www.catalog.gatech.edu/
  programs/human-computer-interaction-ms)
• Human-Centered Computing. PhD (http://www.catalog.gatech.edu/
  programs/human-centered-computing-phd)
• Machine Learning. PhD (http://www.catalog.gatech.edu/programs/
  machine-learning-phd)
• Robotics. PhD (http://www.catalog.gatech.edu/programs/robotics-phd)