



Computing



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Majors in mathematics and computing provide an educational preparation unmatched in terms of demand by employers and graduate schools. In fact, five of the top 10 jobs listed in a recent edition of the *Jobs Rated Almanac* are related to the fields of mathematics and computing. Majors or minors in computing also significantly enhance the marketability of a major in essentially any other discipline.

Computing at Franklin College

The Department of Mathematics and Computing has achieved regional and national recognition for its innovative programs, assessment and career preparation. The department also has been named one of the Top 101 Success Stories in the integration of computer technology in the classroom by EDUCOM, a national educational computing organization.

The computing major has two tracks:

- **Computer science**
- **Software engineering**

A computerized classroom/lab provides students at all levels with regular access to hardware and software comparable to that used in business and industry. The incorporation of technology in the classroom is part of the department's emphasis on active learning. Students are encouraged to work individually and in teams to discover features and applications of fundamental concepts and to complete real-world projects.

Computing Tracks Overview

Computer Science

The Computer Science track provides students with both theoretical and practical background in the fundamental concepts of computer hardware and software. This major or minor has proven to be particularly strong career preparation when combined with additional study in applied mathematics, chemistry or physics.

Software Engineering

The Software Engineering track provides preparation for students who wish to pursue careers as software developers in business, industry, and government. Related courses in Business, Economics, and Accounting provide a strong business orientation for these students. A major or minor in Software Engineering is highly marketable and can be effectively combined with additional study in the areas of Business, Economics, Accounting, and many others.

Internships

Recent internships completed by Franklin College students in the field of computing include:

- Federal Bureau of Investigation
- Interactive Intelligence
- Bailey & Kastner
- Benchmark Records
- Bitwise Solutions
- Franklin Community Schools
- Cactus Graphics
- Bloomington Hospital
- Johnson Memorial Hospital
- Franklin College Information Technology Services
- OneAmerica
- Goldman Sachs
- Facebook

Opportunities

- Grant-funded Research Experiences for Undergraduates (REUs)
- Departmental and student colloquia supporting professional development
- Professional conferences
- Shadow Days that allow students to spend a half-day or more in the professional workplace to see what mathematicians and computing professionals do. Recent sites include:
 - Cummins
 - OneAmerica
 - Eli Lilly & Co.
 - Interactive Intelligence



Student Experience

“My adviser helped me create my four-year plan as a freshman and continues to make sure I’m taking the necessary courses. The computer classes are small, so the professors are able to get to know me and help me find internships based on my interests. The professors are always available to meet me when I have questions and help me prepare for internship interviews.”

–Aubrey Magodlyo | Class of 2015