

How to Apply to Carolina

Carolina's Office of Undergraduate Admissions handles admissions for all undergraduate programs, including computer science. For information and to request an application form, please contact Undergraduate Admissions at (919) 966-3621 or visit their web site: admissions.unc.edu. The web site also provides information about housing, financial aid and scholarships, and many other topics of interest to prospective students. About 40 percent of Carolina's students receive scholarships or some other form of financial aid. (studentaid.unc.edu)



Sitterson Hall's two-level lobby is one of several public areas where computer science students can meet, read, and study.

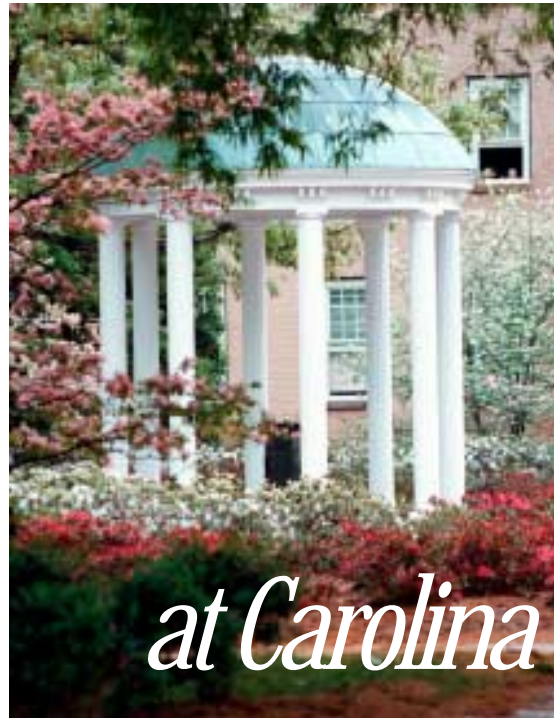
Visiting & More Information

If you have any questions about the Department of Computer Science's undergraduate program in computer science, or would like to visit us to learn more, please contact us:

Undergraduate Student Services
Department of Computer Science
The University of North Carolina at Chapel Hill
Campus Box 3175, Sitterson Hall
Chapel Hill, NC 27599-3175 USA

Phone: (919) 962-1717
FAX: (919) 962-1799
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WWW: www.cs.unc.edu/Bachelors

Undergraduate Study in Computer Science



at Carolina

Department of
Computer Science

The University of North Carolina
at Chapel Hill

www.cs.unc.edu

Why Computer Science?

Computer science is an exciting, evolving field that offers many varied career opportunities. As computers play an ever-greater role in people's everyday lives in areas as diverse as education, business, medicine, and news and entertainment, the demand for people with computer expertise is also on the rise. The bachelor's degree in computer science is fast becoming a popular choice for careers in many different areas, ranging from traditional industries such as software development, computational science, networking, and telecommunications, to the expanding fields of information technology and electronic commerce.

The Department of Computer Science at the University of North Carolina at Chapel Hill offers the Bachelor of Science degree in Computer Science. This degree provides students with excellent preparation both for graduate study in computer science and for professional technical employment. Graduates of our program may choose to work for computer and communications companies, or in such technology-driven fields as financial services and consulting practices in which computing and information management are central to the operation of the enterprise.

Why Computer Science at Carolina?

Excellent Reputation: For many years, our graduate program has been ranked as outstanding in national surveys. Undergraduates benefit from the same qualities that make our graduate program great: an innovative curriculum, outstanding faculty, ground-breaking research, and great facilities.

Modern, Well-Rounded Curriculum: Unlike traditional engineering programs, Carolina's computer science curriculum combines a broad liberal-arts foundation with specialized courses and electives in the field. We offer instruction in all the essential areas of computer science: software development, Web and Internet computing, computer graphics, networking, hardware systems, operating systems, compilers, parallel and distributed computing, and theory of computing. Undergraduate majors can specialize in software systems, programming languages, theoretical computer science, or applications of computing technology to science, applied mathematics, medicine, or business.



We work on a variety of exciting projects. Undergraduates who join research teams have an challenging and rewarding experience and see their classroom learning come alive!

Outstanding Faculty: Courses are taught by full-time faculty, including many award-winning and distinguished scholars. Many are internationally recognized experts in their subject areas, actively performing cutting-edge research. Undergraduates also benefit from having a member of this distinguished faculty as an adviser and mentor.

Ground-Breaking Research: Undergraduates can participate in nationally recognized research programs or use our facilities to pursue self-directed research with a faculty member. We have built peaks of excellence in several areas, including computer graphics, distributed and collaborative systems, hardware design, medical imaging, networking, and parallel computing. Much of our research is accessible to undergraduates and focuses on solving real world problems.

Interdisciplinary Research Collaboration: Our collaborations with researchers in other disciplines at Carolina open up the learning and research opportunities available to students, potentially expanding their career horizons. We collaborate actively with faculty and students in the schools of Information and Library Science, and Medicine, and in the departments of Biomedical Engineering, Chemistry, Marine Sciences, Operations Research, Physics, Psychiatry, and Radiology, among others.

Excellent Facilities: We have a state-of-the-art building containing special-purpose labs, well-equipped classrooms (including a two-way video classroom), auditoriums, conference areas, study areas, and offices all under one roof. We continue to



Sitterson Hall, a state-of-the-art facility, is home to Computer Science at Carolina.

Our Curriculum

At Carolina, students receive both a strong liberal arts background and an excellent foundation in all the essential areas of computer science. All Carolina freshmen enter the General College where they take a variety of courses in the humanities and sciences. While in the General College, those interested in majoring in computer science must take a sequence of nine required courses in computer science and related disciplines including mathematics, physics, and statistics. To gain admission to the major, students must obtain a grade of C or better on these nine core courses. In their sophomore year, students declare their major and enter the computer science degree program.



Our classrooms are fully equipped with the latest technology.

In their junior and senior years, students continue taking courses from both the General College and the computer science curriculum. They must complete the Computer Science Distribution Requirement, a set of six elective courses, with at least one course from each of four categories: applications, programming languages, systems, and theory. Students who distinguish themselves in the classroom are eligible for graduation with honors.

Please visit our web site for the most up-to-date information about course descriptions, degree requirements, and other opportunities for our undergraduate majors:

www.cs.unc.edu/Bachelors

Why Carolina?

Great Education at a Great Value: With its reputation for high-quality education at an affordable price, Carolina is consistently ranked one of the nation's very best public universities. Students benefit from a well-rounded liberal arts curriculum, taking courses in the humanities and sciences, as well as specializing in their major area. This combination not only prepares them for their first job or for graduate school but also provides them with an excellent foundation for a lifetime of learning.

Attractive Location: Carolina is located in the heart of North Carolina in the friendly, scenic college town of Chapel Hill (pop. 48,000). Chapel Hill's main street, Franklin Street, borders the campus and offers shops, cafés, movie theaters and places of worship. The town and the surrounding Triangle area offer many cultural and recreational opportunities.

A Big University Without a Big Feel: Carolina's students number approximately 24,000, with about 15,000 undergraduates and 9,000 graduate and professional students. The freshman class size is approximately 3,400 students. Carolina has about 2,420 faculty, 94 percent of whom hold Ph.D.s or the highest degrees in their field. Two-thirds of undergraduate classes have fewer than 30 students. Many have fewer than 20, including First Year Seminars, in which freshmen work closely with professors.

Many Ways to Learn: Learning at Carolina takes place in a variety of settings from large lecture classes to intimate seminar groups. Students may experience one-on-one instruction, pursue individual research projects, or study abroad for a semester or year. The Honors program offers special seminars, and research programs, and the chance for students to design their own independent studies.

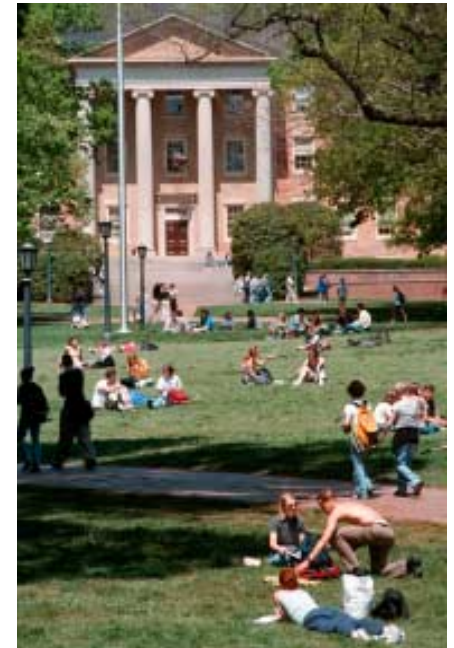
Diverse Student Population: 82 percent of freshmen are from North Carolina and 18 percent are from out of state. Our students come from 42 different states and from 37 countries.

Extracurricular Opportunities: More than 400 clubs, teams, and student organizations offer something for everyone. Students can choose from among musical and dramatic performing groups, publications, ethnic and religious clubs, service organizations, fraternities and sororities, and pre-professional organizations. Carolina has many fine athletic facilities. Students can join more than 60 intramural and club

sports, including baseball, bowling, crew, golf, lacrosse, rock climbing, rugby, tae kwon do, and ultimate frisbee. (www.unc.edu/depts/union/student/listintr.htm)

Commitment to Technology in Education: The Carolina Computing Initiative (CCI) is a plan to integrate technology into the curriculum and to ensure that Carolina students, faculty, and staff have easy, campus-wide access to high-quality, affordable technology and can use it effectively. All incoming freshmen are required to purchase laptop computers (financial assistance is available). Carolina is unique among major U.S. research universities because of the size, scope, and approach of this computing initiative. (www.unc.edu/cci)

Campus technological resources are state of the art. Classrooms are increasingly becoming wired for computers. Computer labs are available for students to use all over campus. Residence halls have hardwired network connections to the Internet and cable television in each room. In addition, the campus features a wireless network that provides Internet access from dining halls, libraries, outdoor spaces, and even some cafés and coffee shops on Franklin Street! Students may take classes on software packages, and utilities, and may open e-mail accounts and use campus computer resources to create personal Web pages.



Students enjoy the campus grounds in springtime.

add the latest high-tech equipment. We were the first department at Carolina to provide full wireless Internet access throughout our building.

Great Fellow Students: Due to the program's standards of excellence, undergraduates majoring in computer science are among the brightest at Carolina. Undergraduates also benefit from contact with our superior graduate students when they take upper-level courses or join research teams.

Nearby High-Tech Community: Carolina's proximity to Research Triangle Park (RTP) means that computer science majors have many internship and post-graduation opportunities in their own backyard. RTP is the U.S.'s largest research park, with more than 140 corporate offices and scientific research centers, employing around 45,000 people.

Paid, Extracurricular Learning Opportunities: In addition to their classroom experiences, undergraduates may enhance their learning experience as lab assistants or teaching assistants for computer science courses, or research assistants on one of the department's many research projects. They can gain valuable work experience as assistants on our computer services staff. We also encourage students to pursue internships and summer co-op experiences.

Other Opportunities: Undergraduates participate in many other department and university activities. Activities, such as the annual ACM programming contest, give students the chance to test their skills and knowledge against their peers at other universities.