

# THE TAR HEEL

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## UNC tuition fees will increase with state's 1983-85 budget

By D.A. TREVOR  
Tar Heel Staff Writer

UNC students could be facing higher tuition fees than was originally expected, if the N.C. General Assembly requires that the UNC Board of Governors raise \$10 million instead of the \$8 million that lawmakers had asked for.

The legislature was expected to approve the 1983-85 budget Wednesday, including the provision that would increase the tuition in the 16 schools of the UNC system by 12 percent for in-state students and 18 percent for out-of-state students.

The budget also contains provisions to raise state employee's wages by 5 percent, and increase sales tax by one-half cent.

John R. Jordan, chairman of the UNC Board of Governors, had proposed earlier this spring two bills to raise tuition rates. One of these bills, if passed, would have increased out-of-state tuition by over \$3400.

The General Assembly had originally intended to raise \$8 million in additional revenues from the tuition increases, but Jordan said it now plans to raise \$10 million, by increasing tuition even more.

Raymond H. Dawson, vice president for academic affairs and a member of the BOG, told *The Tar Heel* three weeks ago that the board is looking at an average tuition increase of 12 percent for in-state residents and an 18 percent increase for out-of-state students. However, this would only raise \$6 million in additional revenues.

Jordan said they will probably stick with these figures of 12 and 18 percent increases.

Kennis Grogan, associate vice president of finance at UNC, said Monday that although it is just a guess since they do not have all the figures, he estimates that out-of-state tuition would have to be increased by more than 20 percent to make up the \$2 million difference.

Opposition to the tuition increases culminated on April 14 when the Coalition for Education, a group of students, professors and campus organizations from all 16 schools in the UNC system, rallied at the N.C. legislature against the tuition hikes and budget cuts in education.

One of the major arguments against a tuition increase of great magnitude is the problem of retaining high quality graduate students as teaching assistants. "One component of the increase relates to graduate assistants," Grogan said. "They

See TUITION on page 4



Tar Heel/Lori Thomas

### Fore!

UNC golf coach Devon Brouse tapes Doug Wolanske's fingers so he can tee

up. The 12-year-old golfer from Connecticut was attending UNC golf camp Monday at Finley Golf Course.



### All That Jazz

See pages 6 and 7

Briefly .....	2	Crossword .....	12
Comics .....	12	Sports .....	8-9
Commentary .....	10 & 11	Week's Fare .....	12

## Comp sci gets \$3 million research grant

By BEN PERKOWSKI  
Tar Heel Staff Writer

The UNC and Duke University computer science departments have obtained a \$4.7 million grant for computer research from the National Science Foundation.

Dr. Frederick P. Brooks Jr., Kenan professor and chairman of computer science at UNC, said the money would be used chiefly for equipment and technical support staff for the research programs of the two departments.

Ralph Mason, associate chairman of the UNC computer science department, said that while the grant was primarily for equipment directed toward research, it would help those undergraduates taking upper-level computer science courses by allowing them access to better equipment.

Mason said that funding for the undergraduate program must come from the State of North Carolina. "The computer science de-

*'... the National Science Foundation recognizes that we are now among the leaders in computer science in the United States.'*

Dr. Frederick P. Brooks Jr.  
Chairman, UNC computer science department

partment currently has the faculty to allow for growth in the undergraduate program, but first the state must provide funds, one, to increase the number of Apples and two, for more teaching money," he said.

Thirteen separate but related research projects will benefit directly from the awards.

Among these is the "next generation VLSI," which involves designing three-dimensional computer chips for the "super computers" of the future. Another, named "VIVID," seeks to develop computer tools for assisting with chip design.

A third project involves learning how to put new chips together into functioning machines with the appropriate packaging, power and cooling technology.

"Then there are four projects aimed at developing particular kinds of new computers that can speed up mathematical calculations, information analysis and complex geometrical drawings," Dr. Brooks said.

The remaining projects are directed toward creating new kinds of computer programs that will offer improved graphic displays for medical, biochemical and other applications.

The grants, which will span five years, will provide \$3,048,000 to the department of computer science at UNC and \$1,724,503 to Duke's computer science department.

"This is a significant event for our state, and the support of the Microelectronics Center of North Carolina was a critical factor in securing the awards," Brooks said. "By its action, the National Science Foundation recognizes that we are now among the leaders in computer science in the United States."

The departments applied for the grants together last September, although each will be administered separately, according to Dr. Thomas M. Gallie, professor and acting chairman of computer science at Duke.

"We're very excited and extremely pleased to have won one of only three awards of this type that the National Science Foundation made in the United States for 1983," Gallie said. "It's been a big effort on the part of everyone involved."