UNC GREENSBORO
Board *of* Trustees

Full Board Meeting
December 2, 2021
8:30 am

Action Item

BOT-5 Tuition and Fee Proposals for 2022-2023

Background Information

Tuition and Fees

Tuition is charged to partially defray the costs of general academic and administrative operations of campuses, including academic programs and faculty and administrative salaries and benefits. Fees are charged only for limited, dedicated purposes and shall not be used to defray the costs of general academic and administrative operations of campuses, including academic programs and faculty and administrative salaries and benefits.

Tuition and fees are reviewed and approved by the University's Board of Trustees and the Board of Governors of the University of North Carolina System. The Board of Governors will not approve tuition rates inconsistent with the General Assembly.

Note: No increase for tuition and fees is requested for 2022-23; however, the University of North Carolina Board of Governors did approve a $6 increase in the Security Fee in March 2021 for the 2022-23 academic year. This does not require approval by the Board of Trustees.

Tuition Differential for the PhD. In Computer Science Program

The Department of Computer Science in the College of Arts and Sciences at UNC Greensboro is requesting approval for a tuition increase to support the new Ph.D. in Computer Science program by $100 per credit hour for doctoral courses specifically related to the required course work, effective Fall 2022. Revenue will be used to support graduate assistantships, which are essential for doctoral programming. With full enrollment, the maximum annual revenue generated from the proposed differential tuition is anticipated to be approximately $30,000.

Residence Hall Room Rates

These rates have been discussed and approved by the Finance and Administration and Student Affairs staff who are involved annually in the planning and rate-setting process. In addition, these rates were reviewed with the student Residence Hall Council who advise on room rates.

The proposed increase represents an overall average of approximately 2.0% increase over the 2021-22 rates.

	2021-22 Rates	**Annual Rates 2022-23**	**Percent Change**
S. Spencer Basement Singles	$7,000	$7,140	2.00%
Standard Double	$5,766	$5,881	2.00%
Quad – Single	$7,782	$7,938	2.00%
Quad - Double	$7,256	$7,401	2.00%
Summer Single	$1,838	$1,875	2.00%
Tower Village Apartments	$6,958	$7,097	2.00%
Spring Garden Apartments	$7.890	$8,048	2.00%
Jefferson Suites			
Single	$7,782	$7,938	2.00%
Double	$7,256	$7,401	2.00%
Lofts on Lee			
2 Bed/2 Bath	$8,928	$9,107	2.00%
4 Bed/4 Bath	$7,890	$8,048	2.00%
Spartan Village			
4 Bedroom 2 Bath	$7,890	$8,048	2.00%
2 Bedroom 1 Bath	$8,350	$8,517	2.00%
2 Bedroom 2 Bath (NEW)	$8,928	$9,107	2.00%

Dining Meal Plan Rates

These rates have been discussed and approved by the Finance and Administration and Student Affairs staff who are involved annually in the planning and rate-setting process. In addition, these rates were reviewed with the student Residence Hall Council who advise on meal plan rates.

This proposed increase represents about a 2.79% increase overall on meal plans that increased.

	Number of Meals	Amount of Flex	Semester Rate 2021-2022	Proposed Semester Rate 2022-2023	Percentage Increase	Dollar Increase
Freshman Plans						
The Spartan Unlimited	584	150	$ 1,848	$ 1,906	3.14%	$ 58
Spiro's 15 (15/week)	654	250	$ 1,848	$ 1,906	3.14%	$ 58
Sophomore/Juniors/Senior /Apt Plans						
Charlie's 10 (10/week)	242	400	$ 1,677	$ 1,728	3.04%	$ 51
Block 117 (117/sem)	278	600	$ 1,677	$ 1,728	3.04%	$ 51
Junior/Senior/Apts/Grad Plans						
Block 65 (65/sem)	224	850	$ 1,557	$ 1,592	2.22%	$ 35
Flex Pack 1050		1050	$ 1,050	$ 1,050	0.00%	$ 0
Junior/Senior/Apts/Grad/ Commuter Plans						
Block 24 (24/sem)	24	200	$ 462	$ 476	2.03%	$ 14
Flex Pack 150	150	150	$ 150	$ 150	0.00%	$ 0
Flex Pack 450	153	450	$ 450	$ 450	0.00%	$ 0
Flex Pack 750	100	750	$ 750	$ 750	0.00%	$ 0

- Rates do not include NC State and Local sales tax.

Request for Differential Tuition
Doctor of Philosophy in Computer Science

Program History

The Department of Computer Science will launch its PhD program in Fall 2022. The program was recently approved by the UNC Board of Governors and presents a unique opportunity to serve labor needs in the state while also addressing demands for interdisciplinary research in the area of computing. The departmental faculty have a strong record of research in the areas of Algorithms, Artificial Intelligence, Big Data, Databases, Data Science, Image Processing, Machine Learning, Deep Learning, Networks, Security, Systems, and Virtual &

Augmented Reality. Their research is complemented by the successful research collaborations with colleagues at UNC system institutions and elsewhere, leading to publications in high profile journals, presentations at prestigious conferences/symposia, and funding from federal agencies (e.g., National Science Foundation, National Institutes of Health, and Department of Defense) and private companies (e.g., Cone Health, Microsoft, and Google).

Given the department's strengths and interests in data science, machine learning, and computer science in general, UNCG and Computer Science are poised to help significantly meet the educational demand and labor force needs in the region, state, and beyond. These are among the reasons why the UNC Board of Governors unanimously approved this new program offering.

Uses for Revenue Generated Through Differential Tuition

Graduate Assistant Stipend & Tuition: The program will use revenue received through differential tuition to provide stipends and tuition waivers to support Graduate Assistants. Other doctoral students will be funded by existing funds reallocated from the College of Arts & Sciences and the Graduate School, as stated in the program establishment request. These students will typically be supported with stipends and tuition remissions for two years before they transition to grant support (from externally funded faculty research projects) and/or compensation received from teaching undergraduate courses. With the launch of the doctoral program, the Department of Computer Science faces significant needs for graduate students to assist with program operations such as research and the teaching of undergraduate introductory course sections. Graduate assistantships also provide students essential support for their training toward industry or academic careers.

Projected Enrollment

The PhD program is faculty-labor intensive, and therefore we aim to recruit only six students as a part of the program's first cohort to ensure capacity for proper student mentorship by the Computer Science Department's existing complement of faculty. Enrollment size is also limited, in part, by the availability of financial resources to support doctoral students. The program will grow over time, as sponsored research expands and greater levels of external funding for doctoral student support is garnered by program faculty. Another factor relevant to program enrollment is the necessity for maintaining good standing with the Accreditation Board for Engineering and Technology (ABET), which monitors student/faculty ratios.
With occasional student increases to each cohort as well as potential student stop-outs each year, we project total enrollment of 26 doctoral students by the fourth year of the program. The enrollment level proposed here is nearly identical to the enrollment reported by NC A&T State University, when a doctoral program in Computer Science was established there in 2017.

Establishment of this program will permit UNCG faculty to develop a number of advanced-topics courses for delivery at the doctoral level, with some courses open to exceptional Master of Science (MS) students as well. UNCG's MS program in Computer Science has flourished for more than 20 years, with many students capable of success at the doctoral level. Along with continuously strong enrollments, the MS program has witnessed a significant hike in applications and a corresponding increase in admitted applicants in the recent enrollment cycles. Given these characteristics, we predict that the MS program will be a feeder into the PhD program. We also

expect strong interest in the PhD in Computer Science program from across the country and abroad, with national and international program marketing scheduled to begin in the summer.

Comparative Tuition Data

UNCG students are paying about the same annual tuition rates as students at NCA&T and UNC-Charlotte, but $3,800 lower than NCSU and $5,300 lower than UNC-CH (NC resident). With differential tuition, Ph.D. students will pay $900 more in tuition than most other graduate students at UNCG each year, bringing their tuition up to $6,119 (NC resident) and $19,837 (Non-Resident), totals which are still $2,900 and $4,400 lower, respectively, than NCSU and UNC-CH annual tuition rates for NC residents. Comparative information is provided below.

Institution	**PhD Degree**	**Modality**	**Annual Tuition (24+ CH)**
Duke University	Computer Science	Residential & Online	$57,900 (Years 1-3) $8,000 (Years 4+)
UNC-Chapel Hill	Computer Science	Residential	$10,552 (NC Resident) $28,844 (Non-Resident)
NC State University	Computer Science	Residential	$9,095 (NC Resident) $27,082 (Non-Resident)
UNC-Charlotte	Computer Science	Residential	$4,337 (NC Resident) $17,771 (Non-Resident)
NC A & T University	Computer Science	Residential	$4,745 (NC Resident) $17,545 (Non-Resident)
UNC-Greensboro	Computer Science	Residential	$5,219 (NC Resident) $18,937 (Non-Resident)

Curriculum

54 credit hours are required for students entering with an M.S. degree in Computer Science and 72 credit hours are required for students entering without an M.S. degree in Computer Science. All students must take at least 33 credit hours at the 700 (doctoral) course level.

Course requirements

54 credit hours for qualified students with an MS degree in Computer Science:

- CSC 701 (3 CH) Orientation and Introduction to Research
- Core courses (0-18 CH: Can satisfy using prior graduate-level courses, but will need to pass qualifying exam at UNCG)
    - 6 CH from "Theory and Algorithms" course group
    - 6 CH from "Systems and Networks" course group
    - 6 CH from "Data/Knowledge" course group
- Electives (18-36 CH)
    - Other 600-level or 700-level CS courses, other than CSC 799
    - Courses from other departments with the approval of the Director of Graduate Studies
    - *Note: At least 15 credit hours must be at the 700 level*
- Dissertation (CSC 799, at least 15 CH)

PhD Core Course Categories

Core courses fall into three areas, shown below, and students must take at least two courses from each area (prior graduate-level courses may be used to satisfy the core course requirement, but all students must pass the qualifying exam for each area):

Foundations/Algorithms:

- CSC 752: Theory of Computation
- CSC 754: Algorithm Analysis and Design
- CSC 756: Foundations of Computer Science

Systems:

- CSC 761: Principles of Computer Architecture
- CSC 762: Principles of Operating Systems
- CSC 777: Principles of Computer Networks

Data/Knowledge:

- CSC-705: Data Science
- CSC-709: Big Data and Machine Learning
- CSC-716: Digital Image Processing
- CSC-725: Bioinformatics
- CSC-729: Artificial Intelligence
- CSC-744: Human-Computer Interface
- CSC-771: Advanced Database Systems

Projected Differential Tuition Revenue and Expenses

	2021	2022	2023	2024
Enrollment	6	12	19	26
SCH from PhD students^	54	108	171	234
SCH from Senior M.S. students*	60	60	60	60
Total SCH for DT	114	168	231	294
Estimated Revenues	$11,400	$16,800	$23,100	$29,400
Expenditures				
Grad Tuition & Stipends	$11,400	$16,800	$23,100	$29,400
Balance	0	0	0	0

^All Ph.D. students will take at least 33 credit hours of 700-level courses. Therefore, on an average, they are expected to take 9 credit hours each year.

*We expect 10 advanced M.S. students to take one 700-level course in each semester.

Recommended Action

That the Board of Trustees of The University of North Carolina at Greensboro approve the tuition, fee, room, and meal plan recommendations for 2022-2023.

Robert J. Shea, Jr.
Vice Chancellor for Finance and Administration