Norfolk State University

***The Graduate Faculty***

***Dr. Aftab Ahmad*, Associate Professor: wireless network design, traffic control, and performance analysis**

***Dr. Felicia Doswell*, Assistant Professor:  networks, security, privacy, Internet technology, Web performance evaluation, and game design**

***Dr. Cyntrica Eaton,* Assistant Professor: software testing, web quality assurance, and configuration fault analysis**

***Dr. Jonathan Graham Jr.*, Associate Professor: information assurance, modeling and simulation, artificial intelligence, and databases**

***Dr. George Harrison*, Professor and Chair: scientific and algorithmic visualization, and evolutionary programming**

***Dr. George Hsieh*, Associate Professor and Graduate Program Coordinator: networking, network security, information assurance, communication systems, and applications**

***Dr. Thorna Humphries*,Associate Professor: persistent object systems, simulation, software engineering, data management, and security**

***Dr. Mona Rizvi*, Assistant Professor: modeling and simulation, software engineering, multimedia networking, and wireless networking**

***Dr. Luay Wahsheh,* Assistant Professor: computer security, information assurance, wireless network security, software security, and database security**

***Dr. Aurelia Williams*, Assistant Professor: information assurance, computer forensics, network security, data communications, and computer science education**

***Dr. Chunsheng Xin*, Associate Professor: wireless networks, optical networks, network security, performance analysis, and modeling**

***CSC 521 Database Principles and Design***

***CSC 526 Structured Programming\*\****

***CSC 530 Data Communications\****

***CSC 535 Computer Security I***

***CSC 564 Operating Systems\****

***CSC 566 Advanced Computer Topics I***

***CSC 567 Advanced Computer Topics II***

***CSC 570 Artificial Intelligence***

**CSC 576 *Advanced Computer T*opics III**

***CSC 577 Advanced Computer Topics IV***

***CSC 580 Computer Graphics***

***CSC 593 Systems Programming***

***CSC 596 Compiler Construction***

***CSC 611 Computational Science I***

***CSC 612 Computational Science II***

***CSC 625 Analysis of Algorithms\****

***CSC 630 Computer Networks***

***CSC 635 Computer Security II***

***CSC 650 Cryptography***

***CSC 660 Parallel Computing***

***CSC 668 Advanced Computer Architecture\****

***CSC 678 Scientific Visualization***

***CSC 691 Independent Study I***

***CSC 701 Continuing Registration\*\****

***CSC 702 Practicum\*\****

***CSC 720 Wireless Sensor Networks***

***CSC 730 Optical Networks***

***CSC 750 Evolutionary Computing***

***CSC 760 Secure Software Development***

***CSC 765 Advanced Topics in Information***

***Assurance***

***CSC 781 Graduate Computer Topics I***

***CSC 782 Graduate Computer Topics II***

***CSC 791 Independent Study II***

***CSC 795 Master's Project***

***CSC 798 Master's Thesis I***

***CSC 799 Master's Thesis II***

***\*CORE COURSES***

***\*\*Does not count toward degree***

**Courses**



**Contact Information**

**Dr. George Hsieh**

**Department of Computer Science**

**Norfolk State University**

**700 Park Avenue, Norfolk, VA 23504**

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**Facsimile: (757) 823-9229**

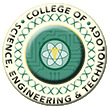
**Email: CompSci@nsu.edu**

**URL:** [**www.cs.nsu.edu**](http://www.cs.nsu.edu)

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**Computer Science**

**Graduate Program**



**Admission Standards**

*Academic Preparation*: Undergraduate degree from a regionally accredited 4-year college or university. Generally, the overall major GPA should be at least 3.0.

*English Proficiency:* TOEFL will be waived if a student has completed at least one year of full-time study at a college or university in an English speaking country. The TOEFL score should be at least 550 on the written test or 213 on the computer-based test with no section score of less than 13.

*GRE:* GRE scores are required of all applications for assistantships and fellowships. GRE scores should be sent to the Graduate School. Generally, the minimum GRE score required is 530 on Verbal, 700 on Quantitative, and 630 on Analytical. The Graduate Admissions Committee may waive GRE requirements if an applicant majored in computer science or computer engineering and has a GPA of 3.2 or higher in computer courses.

**Stipend up to $19,500 per**

**calendar year**

**Program Information**

The Computer Science graduate program provides a quality computer science graduate education to students, especially those from the underrepresented sector of the population, by strengthening analytic skills, offering valuable research experiences, and promoting professional development in computer science.

The Master of Science (M.S.) degree requires 30 graduate credit hours of course work including a thesis (6 credits), or 33 graduate credit hours of course work including a project (3 credits). All degree requirements must be completed within four calendar years. No more than 6 graduate credits may be transferred from other graduate schools. Full-time students starting with a B.S. degree in Computer Science should expect to take 1-1/2 to 2 years to complete the M.S. degree.

The Master of Science in Computer Science program at Norfolk State University provides quality graduate education to equip students, especially those from the underrepresented sector of the population, with analytic skills, sound research experiences and development training in many areas of the computer sciences.

There are four choices of study:

* General Study in Computer Science
* Emphasis in Information Assurance
* Emphasis in Computational Science and Engineering
* Emphasis in Communication Networks

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**Admissions**

Retrieve application forms from NSU's Graduate School webpage [**http://www.nsu.edu/graduate/forms.html**](http://www.nsu.edu/graduate/forms.html)**.**

Mail your completed applications and supporting documents to:

*Graduate School*

*Suite 203, Douglas Wilder Performing Arts Center*

*700 Park Avenue, Norfolk VA 23504*

*Telephone: (757) 823-8015; Fax: (757) 823-2849*

Please visit [**http://www.nsu.edu/graduate**](http://www.nsu.edu/graduate) to submit an online application.

The Office will review your file and forward information to the Computer Science Graduate Program. The Graduate Admissions Committee makes the final selection for admission and assistantship and fellowship awards.

NORFOLK STATE UNIVERSITY

Computer Science Graduate Program

Website: <http://www.cs.nsu.edu>

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• Emphasis in Communication Networks

**Financial Assistance**

Financial assistance for graduate work can include standard federal and state financial aid. There will be a limited number of teaching assistantships, research assistantships, and laboratory assistantships awarded each year.

Renewals of assistantship awards are not automatic, and are subject to annual review and available funding. Normally the length of support is not longer than two academic years.

**Expected Learning Outcomes**

Students graduating from the Master of Science in Computer Science program will be able to demonstrate:

1. Proficiency in applying computing fundamentals in several application areas.

2. Mastery of a significant body of advanced topics in computing, computational science, communication networks, or information assurance.

3. The ability to conduct independent research and understand the body of literature in one or more advanced topics.