Computer Science (MS)

Master of Science Degree Requirements

Code	Title	Hours	Counts towards
Core Courses		**6**	
Select a minimum of one course per category under "Core Courses" listed below			
Required Courses		**7**	
CSC 600	Computer Science Graduate Orientation		
CSC 695	Master's Thesis Research		
Elective Courses		**9**	
CSC 500 or 700-level courses			
Minor Courses, CSC Graduate Electives or Restricted Electives		**9**	
"Minor Courses, CSC Graduate Electives or Restricted Electives" will be approved in conjunction with the academic committee			
Total Hours		**31**	

Core Courses

Code	Title	Hours	Counts towards
Select minimum of two courses, one from each category		**6**	
Theory Category			
CSC 503	Computational Applied Logic	3	
CSC 505	Design and Analysis Of Algorithms	3	
CSC 512	Compiler Construction	3	
CSC 514	Foundations of Cryptography		
CSC 565	Graph Theory	3	
CSC 579	Introduction to Computer Performance Modeling	3	
CSC 580	Numerical Analysis I	3	
Systems Category			
CSC 501	Operating Systems Principles	3	
CSC 506	Architecture Of Parallel Computers	3	
CSC 510	Software Engineering	3	
CSC 520	Artificial Intelligence I	3	
or CSC 720	Artificial Intelligence II		
CSC 540	Database Management concepts and Systems	3	
CSC 561	Principles of Computer Graphics	3	
CSC 570	Computer Networks	3	
or CSC 573	Internet Protocols		
CSC 574	Computer and Network Security	3	

Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

Faculty

Lecturer

Tiffany M. Barnes

Donald L. Bitzer

Rada Yuryevna Chirkova

Jon Doyle

Rudra Dutta

Edward F. Gehringer

Xiaohui Gu

Christopher Graham Healey

James C. Lester II

Timothy James Menzies

Rainer Frank Mueller

Harilaos George Perros

Michael A. Rappa

Douglas S. Reeves

Gregg Evan Rothermel

Georgios N. Rouskas

Nagiza Faridovna Samatova

Carla Diane Savage

Xipeng Shen

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Matthias F. M. Stallmann

Mladen Alan Vouk

Laurie A. Williams

Dennis R. Bahler

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William H. Enck

Vincent W. Freeh

Zhishan Guo

Kook Han

Khaled Abdel Hamid Harfoush

Steffen Heber

Arnav Harish Jhala

Sandeep Kuttal

Edgar Lobaton

Noboru Matsuda

K. Anyanwu Ogan

David L. Roberts

Donald R. Sheehy

Sharma Valliyil Thankachan

Ranga Raju Vatsavai

Benjamin Allen Watson

Anupam Das

Guoliang Jin

Alexandros Kapravelos

Jung-Eun Kim

Jiajia Li

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Collin Francis Lynch

Christopher Robin Martens

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Christopher Joseph Parnin

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Man Ki Yoon

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Jamie Allison Jennings

Jessica Young Schmidt

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Wu-show Chou

Edward Willmore Davis Jr.

Robert Joseph Fornaro

Thomas Lynn Honeycutt

David Franklin McAllister

Woodrow Robbins

William James Stewart

Alan Lee Tharp

David J. Thuente

Adjunct professors

Robert Loftin

Bradford Wayne Mott

Adam Gaweda

Alexander Card

Sterling Mark Mcleod

Xiaorui Liu

Yuchen Liu