

1. Name, current academic rank, and tenure status

**Timothy J. McGuire
Associate Professor of Computer Science
Tenured, September 2003**

2. Date of original appointment to this faculty, followed by dates and ranks of advancement

**September 1999 Assistant Professor
September 2005 Associate Professor**

3. Degrees with fields, institutions, and dates

Degree	Field	Institution	Date
Ph.D.	Computer Science	Texas A&M University	August 1991
M.S.	Mathematics	Colorado State University	December 1979
B.S.	Mathematics	LeTourneau College	April 1977

4. If you do not have a formal degree in computer science, describe any course work you may have taken, or other ways in which you have achieved competence in computer science; there is no necessity to repeat information here which is contained in later sections of this document.

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5. Conferences, workshops, and professional development programs in which you have participated in the last 5 years to improved teaching and professional competence in computer science.

CCSC 2011 Southeastern Conference, Greenville, SC, November 11-12, 2011
ABET PEV Evaluator Refresher Training, On-line course, July 12, 2011
CCSC 2011 South Central Conference, Huntsville, TX, April 15-16, 2011
ACM/SIGCSE Technical Conference 2011, Dallas, TX, March 9-11, 2011
CCSC 2010 Northwestern Conference, Newberg, OR, October 7-9, 2010
ABET PEV Evaluator Training, On-line course, September 15, 2010
CCSC 2010 South Central Conference, Austin, TX, April 23-24, 2010
ACM/SIGCSE Technical Conference 2010, Milwaukee, WI, March 10-13, 2010

CCSC 2009 Eastern Conference, Villanova, Pennsylvania, October 30-31, 2009

ACET 2009, Corpus Christi, TX, October 10-12, 2009

CCSC 2009 South Central Conference, Hammond, Louisiana, April 24-25, 2009

ACM/SIGCSE Technical Conference 2009, Chattanooga, TN, March 4-7, 2009

ACET 2008, Austin, Texas, October 2-4, 2008.

CCSC 2008 South Central Conference, Corpus Christi, Texas, April 18-19, 2008

ABET Program Evaluator Training, Portland, Oregon, March 15-16, 2008

ACM/SIGCSE Technical Conference 2008, Portland, Oregon, March 12-15, 2008

ABET 2007 Annual Meeting, Incline Village, NV, November 1-2, 2007.

ABET 2007 Commission Summit, Incline Village, NV, October 31, 2007.

ABET Faculty Workshop on Assessing Program Outcomes, Incline Village, NV, October 30, 2007.

ACET 2007, San Antonio, Texas, October 11-13, 2007.

Oklahoma Supercomputing Symposium 2007, Norman, Oklahoma, October 2-3, 2007

CCSC 2007 South Central Conference, Wichita Falls, Texas, April 27-28, 2007

Eighth International Conference on Linux Clusters, South Lake Tahoe, CA, May 14-17, 2007.

Oklahoma Supercomputing Symposium 2006, Norman, Oklahoma, October 2-3, 2006

ABET Summer Commission Annual Meetings 2006, CAC Institutional Representative Orientation, Arlington, VA, July 20, 2006.

Seventh International Conference on Linux Clusters, Norman, Oklahoma, May 1-4, 2006.

CCSC 2006 South Central Conference, Huntsville, Texas, April 21-22, 2006

ACM/SIGCSE Technical Conference 2006, Houston, Texas, March 1-3 2006

6. Consulting-list agencies and dates, and briefly describe each project.

2003 NASA/ASEE Faculty Fellowship, Goddard Space Flight Center,

Greenbelt, Maryland -- Developed a simplified programming environment for message-passing computing

7. Principal publications during the last five years. Given in standard bibliographic format.

- T. McGuire, "A Gentle Way of Introducing Multi-Core Programming into the Curriculum," tutorial session, CCSCNW 2010, Newberg, OR, October 8, 2010.
<http://portal.acm.org/citation.cfm?id=1858449.1858471>
- M. Scherger and T. McGuire, "Introducing Multi-Core Programming using OpenMP into the Undergraduate Curriculum," tutorial session, CCSC:SCC 2010, Austin, TX, April 24, 2010.
<http://portal.acm.org/citation.cfm?id=1734797.1734820>
- T. McGuire, "Introducing Multi-core Programming into the Lower-level Curriculum: An Incremental Approach," tutorial session, CCSCE 2009, Villanova, PA, October 31, 2009.
<http://portal.acm.org/citation.cfm?id=1629116.1629137>
- F. Ackerman, T. McGuire, T. Scott, and J. Peterson, "Nifty Assignments," *The Journal of Computing Sciences in Colleges*, vol. 24, no. 1, 2008.
<http://portal.acm.org/citation.cfm?id=1409763.1409821>
- D. Collins and T. McGuire, "Using the DC3 Forensic Challenge as a Basis for a Special Topics Digital Forensics Upper Level Undergraduate Course," *The Journal of Computing Sciences in Colleges*, vol. 23, no. 6, 2008. <http://portal.acm.org/citation.cfm?id=1352383.1352387>
- K. Hartness, T. McGuire, L. Shannon, P. Tedford. "Attracting Majors," panel session, CCSC:SCC 2008, Corpus Christi, TX, April 19, 2008.
- D. Collins and T. McGuire, "Using the DC3 Forensic Challenge as a Basis for a Special Topics Digital Forensics Upper Level Undergraduate Course", poster session, SIGCSE 2008, Portland, OR, March 13, 2008
- T. McGuire, "Curricular Issues in High Performance Computing," poster session paper, *Oklahoma Supercomputing Symposium*, Norman, Oklahoma, October 2, 2006.
- T. McGuire and K. Murff, "Issues in the Development of a Digital Forensics Curriculum," *The Journal of Computing Sciences in Colleges*, vol. 20, no. 1, 2006.
<http://portal.acm.org/citation.cfm?id=1181901.1181947>
- T. McGuire and K. Murff, "Development of a Graduate Digital Forensics Curriculum," poster session paper, *ACM/SIGCSE Technical Symposium on Computer Science Education*, Houston, Texas, March 2006.

T. McGuire, "A Simplified Message-Passing Library," *The Journal of Computing Sciences in Colleges*, vol. 19, no. 4, 2004.

<http://portal.acm.org/citation.cfm?id=1050231.1050268>

T. McGuire, "SIMPL: The Simplified Message-Passing Library," poster session paper, *ACM/SIGCSE Technical Symposium on Computer Science Education*, Norfolk, Virginia, March 2004.

B. Culver and T. McGuire, "OOPic-Based Mobile Robots in the Undergraduate Curriculum" poster session paper, *ACM/SIGCSE Technical Symposium on Computer Science Education*, Norfolk, Virginia, March 2004.

8. Other scholarly activity during the last 5 years: grants, sabbaticals, software development, etc.

"The Sky Really IS Falling!" conference presentation, ACET2008, Austin, Texas, October 3, 2008.

"Using Rubrics to Help You and Your Students Perform Better," conference presentation, ACET2007, San Antonio, Texas, October 13, 2007.

"Simplifying Message Passing Programming For Novices," conference presentation, Seventh International Conference on Linux Clusters, Norman, Oklahoma, May 3, 2006.

"What Do Martha Stewart, Bill Gates, and Monica Lewinsky Have in Common? They All Learned About Digital Forensics the HARD Way," conference presentation, ACET2005, Fort Worth, Texas, October 7, 2005.

9. Courses taught this and last academic year term-by-term. This year is the academic year in which this Self-Study report is prepared; the last year was the year prior to this. If you were on sabbatical leave, please enter the information for the previous year. Please list each section of the same course separately.

Term/Year	Course Number	Course Title	Semester Hours	Class Size
Spring 2010	CS 146	Introduction to Programming and Algorithms	4	19
	CS 272	Computer Organization I	3	29
	CS 430	Language Translators	3	17
Summer 2010	CS 146	Introduction to Programming and Algorithms	4	17
	CS 147	Programming Algorithms and Data Structures	4	12

	CS 470/560	Special Topics – Mobile Devices	3	13
	CS 574	Data Structures	3	7
Fall 2010	CS 147	Programming Algorithms and Data Structures	4	15
	CS 272	Computer Organization I	3	30
	CS 333	Computer Organization II	3	25
Spring 2011	CS 147	Programming Algorithms and Data Structures	4	14
	CS 272	Computer Organization I	3	25
	CS 574	Data Structures	3	27
Summer 2011	COSC 1436	Introduction to Programming and Algorithms	4	13
	COSCS 1437	Programming Algorithms and Data Structures	4	15
Fall 2011	COSC 2329	Computer Organization I	3	36
	COSC 3319	Data Structures and Algorithms	3	35
	COSC 3327	Computer Organization II	3	19
	COSC 532	Parallel Computing	3	8
Spring 2012	COSC 1436	Programing Fundamentals I	4	20
	COSC 2329	Computer Organization I	3	23
	COSC 5319	Data Structures	3	7
	COSC 5327	Operating Systems	4	11

10. Other assigned duties performed during the academic year, with average hours per week. Indicate which, if any, carry extra compensation. If you are course coordinator for courses taught by other than full-time faculty, please indicate here which courses.

<p>Emeritus Faculty Committee, 2009 – Present (5 hours per semester)</p> <p>Career Services Advisory Board, 2007 – Present (3 hours per semester)</p> <p>College of Arts and Sciences Curriculum Committee, 2006 – Present (0.5 hours per week)</p> <p>Computer Science Curriculum Committee, 2002 – Present (1 hour per week)</p> <p>Computer Science Textbook Coordinator, 1999 – Present (0.25 hrs per week)</p> <p>CS 146 Course Coordinator, 2006 – Present (0.5 hrs per week)</p> <p>CS 147 Course Coordinator, 2006 – Present (0.5 hrs per week)</p> <p>CS 272 Course Coordinator, 2006 – Present (0.25 hrs per week)</p> <p>CS 333 Course Coordinator, 2006 – Present (0.25 hrs per week)</p> <p>Mandatory Advisor for Computer Science, 1999 – Present (2 hours per week)</p>
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11. Number of students for which you service as academic advisor: 75

12. Estimate the percentage of your time devoted to scholarly and/or research activities: 20%. Please give a brief description of your major research and scholarly activities:

- Developing expertise in ABET accreditation issues, specifically on the transition from standards-based to criteria-based accreditation
- Researching new environments for distributed many-core processing
- Evaluation of need for an undergraduate text on multi-core programming

13. If you are not a full-time faculty member, state what percentage of full-time you work: _____ % Percentage of this time allocated to the computer science program being evaluated: _____ %.