

Curriculum Vitae
of
Tim Downey, School of Computing and Information Sciences

EDUCATION

- M. S., State University of New York at Albany, Computer Science, 1986
- M. S., University of Rhode Island at Kingston, Mathematics, 1980
- B. S., Bates College, Mathematics, Minor in Speech and Theater, 1976

FULL-TIME ACADEMIC EXPERIENCE

- FIU, University Instructor, SCIS, August 2017 - Present
- FIU, Senior Instructor, SCIS, August 2011 – August 2017
- FIU, Instructor, SCIS, August 1991 – August 2011

PART-TIME ACADEMIC EXPERIENCE

- FIU, Adjunct Instructor, Computer Science, January 1991 – August 1991
- SUNY Albany, NY, Teaching Assistant, Computer Science, August 1984 – May 1985
- URI Kingston, RI, Teaching Assistant, Mathematics, August 1978 – May 1980
- Public School Department, Pittsfield, MA, Substitute teacher, Mathematics, Fall 1977
- State of Massachusetts, Teaching Certificate in Secondary Education, Mathematics, 1976

NON-ACADEMIC EXPERIENCE

- Self-employed entertainer, Miami, Florida; Performed all over the world, including Japan, Germany, Israel, Austria, France, Italy, Holland, Denmark, Greenland, Canada and across America; Delighted audiences with comedy, juggling and unicycling. 1986 – 1991.
- Self-employed computer consultant, Miami, Florida; Teaching the use of software packages for the PC; Writing menu driven software for the PC for small businesses. 1986 – 1991.
- Actuary for the New York State Retirement System, Albany, NY; Coded the NY State Retirement System's laws into PVL, a Pension Valuation Language, using PL1. 1985.
- Actuary for the New York State Retirement System, Albany, NY; Supervised from two to eight people; managed the Actuarial Valuation and Billing cycles. 1980–1984.

EMPLOYMENT RECORD AT FIU

- FIU, University Instructor, SCIS, August 2017 - Present
- FIU, Senior Instructor, SCIS, August 2011 – August 2017
- FIU, Instructor, SCIS, August 1991 – Fall 2011
- FIU, Adjunct Instructor, Computer Science, January 1991 – August 1991

TEACHING AWARDS

- CEC, College Excellence in Teaching – 2013. One teaching award is presented at the annual awards ceremony in the College of Engineering and Computing.
- SCIS, School Excellence in Teaching – 2012. One teaching award is presented at the annual awards ceremony in the School of Computing and Information Sciences.
- FIU, Promotion to Senior Instructor, Fall 2011.
- FIU, University Excellence in Teaching – 2007. Presented for a commitment to the advancement of knowledge and contributions to the ideals of the University.
- CEC, College Excellence in Teaching – 2006. One teaching award is presented each year at the awards ceremony in the College of Engineering and Computing.
- SCIS, School Excellence in Teaching – 2006. One teaching award is presented at the annual awards ceremony in the School of Computing and Information Sciences.
- FIU, University Excellence in Teaching – 2002. Presented for a commitment to the advancement of knowledge and contributions to the ideals of the University.
- SCIS, School Excellence in Teaching – 2002. One teaching award is presented at the annual awards ceremony in the School of Computing and Information Sciences.
- FIU, Matriculation Merit Award – 2001.
- FIU, University Excellence in Teaching – 1997. Presented for a commitment to the advancement of knowledge and contributions to the ideals of the University.
- FIU, Teaching Incentive Program – 1995.

FUNDED PEDAGOGIC PROJECTS

N/A

PUBLICATIONS

- Guide to Web Development with Java: Understanding Website Creation, ISBN: 978-1447124429
- Web Development with Java Using Hibernate, JSPs and Servlets, ISBN: 978-1-84628-862-3

PRESENTED PAPERS, AND LECTURES

N/A

OTHER SCHOLARLY AND CREATIVE WORK

Professional Development

- Attended SIGCSE – 2018, Baltimore, MD. A national conference for computer science education. Participated in an additional workshop: Web Services using NodeJS.
- Attended SIGCSE – 2017, Seattle, WA. A national conference for computer science education. Participated in two additional workshops: Using Arduino for Computer Organization; Using Arduino and sound to learn programming.

- Participant in the Fall 2016 Hybrid Pilot program. Redesigning the Windows Programming course with new videos and online lessons. Participated in a four-day workshop on course development and hybrid activities.
- Attended SIGCSE – 2016, Memphis, TN. A national conference for computer science education. Participated in an additional workshop: Arduino Programming.
- Professional Development Leave – Spring 2013. Learned about the growing security field. Studied the syllabi for three of the common certifications in the security field: Security+. Certified Ethical Hacker, Certified Information System Security Professional.
- Attended SIGCSE – 2011, Dallas, TX. A national conference for computer science education. Participated in an additional workshop: Creating Android Applications.
- Attended SIGCSE – 2009, Chattanooga, TN. A national conference for computer science education. Participated in additional workshop: Web Development with Django.
- Attended SIGCSE – 2007, Covington, KY. A national conference for computer science education. Participated in an additional workshop: Teaching OOP in Python.
- Professional Development Leave – Fall 2007. Studied for four certification exams which are common in the Information Technology field. These certifications are related to the syllabi of three courses in our IT degree program. By learning this material, I trained myself to teach these three courses and gained vital insight that was needed when the IT program was redesigned.
- Attended SIGCSE – 2006, Houston, TX. A national conference for computer science education. Participated in additional workshop: Software Development for the Tablet PC.
- Attended SIGCSE – 2004, Norfolk, VA. A national conference for computer science education. Participated in an additional workshop: Using Lego Mindstorm in an AI Course.
- Attended SIGCSE – 2003, Reno, NV. A national conference for computer science education.
- Attended SIGCSE – 2000, Austin, TX. A national conference for computer science education. Participated in two additional workshops: Putting the Fun back into Programming I; Using Robots to Teach Introductory Programming Techniques.
- Attended SIGCSE – 1998 Atlanta, GA. A national conference for computer science education.

SCIS Senior Project

- Planned and mentored a senior project for a team of two students – Fall 2014. The continued the previous project. Interfaces were designed for adding new catalogs and for generating flowcharts.
- Planned and mentored a senior project for a team of two students – Fall 2012. The project entailed developing an online interface for maintaining degree program information.

Development of New Courses

- Redesigning COP4226 as a hybrid course. Creating videos and online activities for programming in Windows.
- Aided in the design of a possible security track for the IT program.
- Chose the textbook and designed the syllabus for the revised course Computer Operating Systems for the revised IT program. IT core class.
- Advised Kip Irvine in the design of the new Component Programming class for the revised IT program. IT core class.
- Modified the Advanced Windows Programming class. As the Windows frameworks have evolved, I have had to redesign the course. CS elective class.
- Created the course Advanced Web Site Construction and Management. In response to the popularity of the World Wide Web, I developed this course in 1998. Students learn to write programs that communicate between the web browser and the web server. This course was added to the IT program when the degree was introduced in 2004. This course was the inspiration for my textbook. IT core class.
- Aided in the design of the programming sequence COP2210, COP3212, COP3223 in 1998. At the time we were moving from Pascal/Ada to C++. Many of the topics from COP3223 were moved into COP3212. COP2210 and COP3212 would now use the same programming language. COP3223 would be half in Java and half in C++. CS core classes.
- Aided in the restructuring of the COP3402, CDA4101 sequence of courses in 1997. I taught both of these classes the first time they were taught in the new format. CS core classes.

OFFICES HELD IN PROFESSIONAL SOCIETIES

N/A

UNIVERSITY AND PROFESSIONAL SERVICES

United Faculty of Florida

- 2017-present, Vice President for the Faculty Union
- 2016-present, Senator for the Faculty Union
- 2005-present, Web Master for the Faculty Union web site, <http://www.uff-fiu.org>
- 2015-2016 Alternate Senator for the Faculty Union
- 2014-2015 Senator for the Faculty Union
- 2012-2013 Senator for the Faculty Union
- 2011-2012 Alternate Senator for the Faculty Union
- 2010-2011 Senator for the Faculty Union
- 2009-2010 Senator for the Faculty Union
- 2006-2007 Senator for the Faculty Union

SCIS Committees

- Undergraduate Committee and major tasks accomplished each year:
 - 2000-2001: developed the Information Technology major
 - 2006-2007: developed learning outcomes for the CS and IT programs
 - 2008-2009: evaluated the CS program and made changes to the curriculum
 - 2009-2010: evaluated and redesigned the IT program in accordance with ACM and ABET
 - 2010-2011: approved new BSIT/MSEM 4+1 program
 - 2011-2014: reevaluating course outcomes for the IT and CS programs
 - 2015-2016: evaluating the programming sequence for the IT program. Chair of Programming Subcommittee. Chair of security committee.
 - 2016-2017: designing the security concentration for the IT program.
 - 2017-present: reviewing the assessment report and making appropriate changes to the curriculum.
- Course Coordinator for the Programming Classes
 - 2009-2010
 - 2010-2011
 - 2011-2012
 - 2016-present

Adviser for SCIS, Fall 2000-Spring 2013

- Managed the CS program that we offered in Jamaica. There were still students in the program who were completing lower division requirements and CS upper division requirements.
- Evaluated files for graduation; created memos to be sent on behalf of the student to the minor departments to validate that the minor is complete; checked that all majors and minors had been awarded.
- Presented transfer orientation sessions to new transfer students; individually advised transfer students about necessary requirements; adjusted upper division credits for transfer students; evaluated CS and IT courses for transfer students; directed other departments to evaluate transfer credits that apply to our programs.
- Evaluated files for students seeking readmission; made recommendations to the Associate Director for students who should be readmitted; advised students who were not readmitted about steps that should be followed to improve the chances of being admitted in the future.
- Maintained the program information for the school and created the web site and pamphlets that contain the program information. I have written a program that generates these files from a single computer file that has all the program information in it.
- Created a web interface that simplifies accessing student records and organizes resources for advisers.
- Created a web interface that generates common memos that advisers write.
- Trained five advisers in the SCIS advising procedures.

- Member of Council of Undergraduate Advisers; there were monthly meetings designed to keep all the advisers abreast of the changes in the university.

COURSES TAUGHT AT FIU

- CDA4101 Structured Computer Organization [CS core]
- CGS2060 Introduction to Microcomputers
- CGS2423 C for Engineers
- CGS3092 Professional Ethics and Social Issues in Computer Science
- CGS3559 Introduction to the Internet
- CGS3767 Computer Operating Systems [IT core]
- CGS4854 (COP3832) Web Site Construction and Management [IT core]
- CNT4713 Net Centric Computing [CS core]
- COP2210 Programming I [CS core]
- COP2250 Programming in Java [IT core]
- COP3212 Programming II [CS core]
- COP3402 (COP2400, COP3400) Fundamentals of Computer Systems [CS core]
- COP3403 Introduction to COBOL
- COP4555 Programming Languages [CS core]
- COP4226 Advanced Windows Programming [CS elective]