

J. Burton Browning, Ed.D.

EDUCATION

- North Carolina State University, Raleigh, NC, 1999.
Ed.D. - Technology Education.
Dissertation title, “Analysis of concepts and skills acquisition differences between web-delivered and classroom-delivered undergraduate instructional technology courses”.
Minor - Training and Development and Adult Learning.
Research Advisor: Richard Peterson, Ed.D.
- East Carolina University, Greenville, NC, 1991.
M.A.Ed. in Business, Vocational, and Technical Education.
- East Carolina University, Greenville, NC, 1989.
B.S. in Information Processing and Basic Business Education.

Research — Research, innovation, and student advising - Graduated from a research-intensive university with original research in web-based instruction. Research includes Web 2.0, M-Learning, and many other technology areas. Published refereed and non-refereed books in areas including: *Design, Logic, and Programming with Python: A Hands-on Approach, Emerging Technologies, and Open-Source Software Theory and Practice*. Others are in-progress including Ruby programming, and a biography of a WWI veteran. Student adviser, student advocate, manage work-study students, manage COOP students, supervise student placements, and handle student appeals.

Technology — Information Technology and Instructional Technology – Have worked with complex technology systems. Research, teach, and perform successfully in many technology areas including computer security, operating systems, computer programming, and networking. Firm understanding of all facets of technological innovation, growth, and expansion. Leader of technical professional faculty. Spearheaded design, implementation, and management of start-up radio station for Brunswick Community college. Designed, setup, and managed operations of first fiber-optic classroom (video and data) in Brunswick County, N.C., NCIH (North Carolina Information Highway) classroom was one of the first in the nation.

Teaching – Teach more than five graduate classes and twelve undergraduate classes per year. Work well with fellow faculty members and considered an “idea” person with innovative solutions to problems (opportunities for improvement). Have taught on-line courses for four colleges and universities. Nominated by several UNC-Wilmington students as professor who most influenced their college career, received special commendation from Lesley University for outstanding student reviews. Continue to receive high yearly reviews from Brunswick Community College and Lesley University.

Service – Work with local youth, serve on credit union board, lead Instructor in two program areas for Brunswick Community College, manage radio station for Brunswick Community College, supervise and hire professional employees and students. Have hired and supervised employees for: (1) Brunswick County Schools, (2) UNC-Wilmington, (3) Browning Technology Systems, and (4) Brunswick Community College. Negotiated contracts for consultants and consultant services. Regularly serve on committees including: employment search committees, focus groups, safety, SACS, marketing, and technology as well as various other campus committees and councils.

RESEARCH AND TEACHING

Publishing, authoring, editing, and peer-review process

- ➔ Published over five books (more in progress).
- ➔ Cover graphics design expertise.
- ➔ Establishment of author style and formatting guidelines.
- ➔ Management and assignment of peer reviews
- ➔ Book layout/design expertise.
- ➔ Marketing experience.
- ➔ Administration of *OpenConf* PHP submission and review system.

Web-based and alternative format distance learning

- ➔ M-Learning (via Smart phone, Twitter, PDA, etc.).
- ➔ Blackboard, Moodle, NetForum, Collegis, Campus Cruiser, and Datatel.
- ➔ Internet radio streaming media, pod casting, and screen casting.
- ➔ Wiki use in education and expansion of user “any-time, any-place” learning.
- ➔ Use of cohort groups to enhance learning experience with technology as delivery medium.

Innovative technology

- ➔ Wearable computing.
- ➔ PDA-based computing.
- ➔ Tablet PC-based computing.
- ➔ Robotics.
- ➔ Virtual server technology.

Computer programming and network security

- ➔ Teach C++ introduction and advanced (10+ years experience).
- ➔ Teach Python and project design, change management, and analysis (10+ years experience).
- ➔ Teach JAVA introduction (10+ years experience).
- ➔ Teach Visual Basic.NET and Visual Basic 6 introduction and advanced (10+ years experience).
- ➔ Teach robotics and PLC programming with a variety of hardware and software including Athera PLC, Cricket, Stamp, LOGO, M.S. Robotics Studio, Robolab,

- and other languages (10+ years experience).
- Teach flowcharting, software project design, database/SQL connectivity, web integration, and HTML (10+ years experience).
- Security+ certified by COMPTIA and teach security courses which include network intrusion detection with SNORT, port mapping/scanning with NMAP, Honey-pot technologies, Microsoft Baseline Security Analyzer, antivirus and spyware prevention/removal, security policy design, password and user rights assignment, data encryption, penetration testing, remote computer control with Real VNC and Netmeeting, and other security topics.
- Teach Information Technology courses including: database, help desk implementation and support, technical training and support, presentation software, emerging technologies, spreadsheet software, and technology project management.
- Experience with Unix and CLI-based system for over 20 years.

CAREER WORK EXPERIENCE

January 2010 – Present, Department Chair of Business, Engineering and Technology, Brunswick Community College, Supply, NC <http://www.brunswickcc.edu>

- Department Chair for: Computer Programming, Information Systems, Business Administration, Accounting, Office Systems, Engineering, and Electronics.
- Supervise full-time and part-time faculty in each area.
- Manage operations of *radiobcc* BCC radio station.
- Teach many technology courses.
- Manage department finances.
- Advise students.
- Hire, supervise, and evaluate instructors.
- Establish new and expand existing programs.
- Establish green initiatives such as bio-diesel, solar, etc.

August 2002 – 2012, National Faculty Member, Lesley University <http://www.lesley.edu> Cambridge, MA. Teach graduate-level courses in School of Technology Education (TIE program).

- Teach at different sites around the United States.
- Teach Computer Structures.
- Teach Educational Robotics/Programming.
- National faculty status.
- Regularly receive positive evaluations.

1999 – Present, Owner, JBBrowning.com, <http://www.jbbrowning.com>.

- Lytec Medical system.
- Security (anti-virus, anti-spyware, and network auditing).
- Custom programming.
- Virtual Private Networking (VPN).

- ➔ Open-source solutions.
- ➔ Server installation (Microsoft, Novell, Linux, OS/2).
- ➔ Education K-12 technology consulting.
- ➔ Network design and installation.

August 2001 – 2010, Lead Computer Programming and Lead Information Systems Instructor, Brunswick Community College, <http://www.brunswickcc.edu> Supply, NC.

- ➔ Lead Instructor for two major program areas: Computer Programming and Information Systems.
- ➔ Creation, implementation, and management of BCC radio station. <http://radiobcc.brunswickcc.edu/>
- ➔ Implemented core changes in CCNA networking curriculum.
- ➔ Advise students.
- ➔ Hire, supervise, and evaluate instructors.
- ➔ Serve on committees including SACS, hiring, and marketing.
- ➔ Hire and supervise adjunct instructors in two program areas.
- ➔ Teach hardware/software courses as preparation for A+ certification.
- ➔ Teach applications courses as preparation for MOUS exams (Excel, Access, and Power Point).
- ➔ Teach Networking courses (CCNA preparation).
- ➔ Teach operating systems use courses (Windows, DOS, and Linux).
- ➔ Teach introduction and advanced programming with: C++, Visual Basic, Visual Basic.NET, JAVA, Python, HTML (web design).
- ➔ Teach a variety of Information Systems courses including Help Desk Support and Training and Support.
- ➔ Develop and teach on-line courses with Blackboard.
- ➔ Implemented ground-level changes in OST 284 Emerging Technologies course for college. Currently in process of writing textbook for course.
- ➔ Taught and managed student workers who served as LAN administrators for departmental Microsoft 2003 file server.
- ➔ Set up and successfully demonstrated proof-of-concept test (with student talent) first Internet radio station for Brunswick Community College.

August 2002 – 2004, Adjunct faculty member, Walden University, Minneapolis, MN. Taught graduate courses in School of Education.

- ➔ Served as dissertation and thesis committee member.
- ➔ Taught courses 100% on-line with Blackboard software.
- ➔ Taught many courses, including: “Habits of Mind: Thinking Skills to Promote Self-Directed Learning,” technology integration courses, research design methods, etc.

June 2000 – February 2001, Project manager for Nortel to Cisco international router and SunGard backup upgrade for National Gypsum Inc., Charlotte, NC. Contracted for this project only and not as a National Gypsum employee.

- ➔ Year long project which required extensive work with Bell South.

- ➔ Served as key contact and project manager for site migration.
- ➔ Worked with Bell South engineers and site contacts to install and test new equipment and disaster recovery system.

June 1996 to May 2000, Director of the Instructional Technology Center -- Watson School of Education, University of North Carolina at Wilmington, Wilmington, NC.

- ➔ Developed and taught undergraduate and graduate courses in instructional technology.
- ➔ Served on committee to redesign required technology course EDN 303.
- ➔ Designed and taught EDN 416 Advance Instructional Technology.
- ➔ Taught graduate and undergraduate courses: EDN 303 Instructional Technology, EDN 416 Advanced Instructional Technology, and EDN 562 Technology for Public School Administrators.
- ➔ Conducted research in multi-point IP video conferencing with student teacher interns. Whitepine video conference reflector server was utilized.
- ➔ Coordinated field testing for NCDPI of basic computer literacy test.
- ➔ Coordinated efforts of Watson School of Education in the use of web-based instruction.
- ➔ Coordinated Watson School use of UNW-W North Carolina Information Highway distance learning efforts.
- ➔ Installed and managed Novell and Unix servers for the Watson School of Education.

1993 - June 1996 -- Western Area Computer Coordinator, Brunswick County Schools (BCS), Southport, NC.

- ➔ Designed, developed, and managed the first North Carolina Information Highway (NCIH) data and video site for Brunswick County Schools.
- ➔ Managed NCIH programming and supervised room manager.
- ➔ Installed first Wide Area Network (WAN) to connect public schools to central office and the Internet (A total of twelve schools were interconnected)
- ➔ Supervised four buildings and central office and a staff of five full-time Instructional Technologists.
- ➔ Conducted training for staff and teachers on technological and instructional technology integration topics.
- ➔ Designed, installed, and maintained network and server infrastructure in four buildings and central office (Ethernet, Token Ring, and fiber technologies were utilized).
- ➔ Developed technology standards for schools regarding technology use and expansion.
- ➔ Developed project management plans for technology replacement, training, and expansion.
- ➔ Assisted in management and upgrade of IBM AS400 mini computer system.
- ➔ Managed Internet accounts for county.
- ➔ Installed and managed Student Information Management System (SIMS).

- ➔ Installed and managed implementation of Abacus Instructional Management System (IMS).
- ➔ Installed and managed L-Systems D-Track ISS/detention tracking system.
- ➔ Installed and managed Groupwise groupware system.

1992 - June 1993 -- Technology Designer, *The Odyssey Project*, Gaston County Schools, Gastonia, NC.

- ➔ One of only six selected from a national search to be Technology Designer for project.
- ➔ K-12 educational reform initiative which utilized a 21st century break-the-mold approach to education.
- ➔ One of only 11 New American Schools Development Corporation (NASDC) nationally funded, multi-million dollar sites.
- ➔ Wrote sections of required deliverables on various technology and education topics.
- ➔ Worked with Bell Northern engineers on innovative technology delivery methods.
- ➔ Designed and installed network/server infrastructure for project.
- ➔ Installed and managed Davinci email system for project.
- ➔ Served as key technology procurement contact.
- ➔ Designed artwork for deliverables covers.
- ➔ Worked with consultants on education, technology, and sociological facets of project (most notably Dr. Ben Bissel on organizational change).
- ➔ Represented project at 1992 technology convention, New Orleans, LA.

HONORS, DISTINCTIONS, AND MEMBERSHIPS

- 2010 Member, Informing Science Institute.
- 2009 Member, International Vocational and Training Association (IJVET).
- 2004 Recognized by Lesley University course director for high student satisfaction ratings.
- 1996 Recognized by former students as a teacher who most influenced their college career, UNC-Wilmington, Wilmington, NC.
- 1992 Watson School of Education Design and Innovation Award, while employed as Technology Designer with *The Odyssey Project*, Gastonia, NC.

BIBLIOGRAPHY

- 2011 Refereed book chapter: Reid, Houchen-Clagett, and Browning (2012) Twitter: Integration into Developmental English and Technology. In Cheal, C., Coughlin, J., and Moore, S. (Eds.) Transformation in Teaching: Social Media Strategies in Higher Education. Informing Science Institute Press. Also available from Amazon.com.

- 2011 Book: Visual Basic.NET 2008 Database Basics, First Edition. By J. Burton Browning, LULU Press, Little Willy Media, Inc.. Sole author of book.
- 2010 Refereed book: Open Source Solutions in Education – Theory and Practice. Edited by J. Burton Browning, Informing Science Press. Designed concept for book, conducted all-call for proposals, managed peer-review process with international authors, managed author submissions, edits, and author warranty agreements.
- 2009 Refereed journal article: Examining Stakeholder Perspectives on Integrating Open-Source and Freeware Technologies into Educational Programs. Dickerson, J. and Browning, J. B. Volume 17, Number 2, 2009, *The International Journal of Vocational Education and Training (IJVET)*.
- 2009 Book: Design, Logic and Programming with Python – A hands-on Approach, Third edition., J. Burton Browning. Lulu Press.
- 2008 Refereed book chapter: Dickerson, J. & Browning, J. B. (2009). Selecting Appropriate Technologies for Mobile Teaching and Learning. In Dr. Retta Guy (Ed.) The Evolution of Mobile Teaching and Learning, (pp. 28). Informing Science Institute Press. Also available from Amazon.com.
- 2008 Book: Design, Logic and Programming with Python – A hands-on Approach, Second edition., J. Burton Browning. Lulu Press.
- 2008 Refereed journal article: Python as a Tool to Teach Introductory Programming -- Preparing Technology Students for Future Challenges. J. Burton Browning. Volume X, 2008., North Carolina Council on Technology Education (NCCTTE) *Technology Education Journal*, North Carolina State University, January, 2008.
- 2009 Book: From Farm to WWI Forward Observer -- Retracing Hugh B. Browning's experience from the US to Europe and back in WWI A true account of a WWI soldier in the AEF. Co-authored with Hugh Burton Browning, in progress, plan on Late 2009 completion. Also making documentary film of same subject.
- 2009 Refereed journal article: Scaffolding Equals Success in Teaching Tablet PCs. Dickerson, J., S. Williams, S., & Browning, J. B. *The Technology Teacher. Journal of the International Technology Education Association.* Accepted for publication, October, 2007.
- 2009 Book: Technologist's Handbook of Emerging Technologies 2009 – 2010 . Browning, J. B. Lulu Press. Also available from Amazon.com.
- 2006 Book: Design, Logic and Programming with Python – A hands-on Approach, First edition., J. Burton Browning. Published by luniverse. Also available from Amazon.com.

- 2006 Educational Testing Service (ETS) Reader for AP Computer Science.
- 2009 Technical content editor, Apress, Inc. publisher.
- 2004 – 2006 - Redesigned over thirty general and instructor syllabi for Brunswick Community College in two associate degree program, and two diploma areas:
- ➔ Computer Programming.
 - ➔ Information Systems.
 - ➔ Web Design.
 - ➔ Networking Technologies.
- 2004 Technical paper: Cain & Abel v 2.5 Password Cracking Via ARP Cache Poisoning Attacks. Security lab for national use in network security training.
- 2004 Article: Teaching Introduction to Programming with Python. *Technological Horizons in Education (THE) Journal*. J. Burton Browning. Accepted for publication.
- 2004 Reviewer: C++ in the Lab, Lab Manual to Accompany C++ How To Program 3rd-Edition, Deitel, Deitel, and Nieto.
- 2000 -- to present: Reviewer: several technology and programming textbooks, Prentice-Hall.
- 1999 Dissertation: Analysis of Concepts and Skills Acquisition Differences Between Web-delivered and Classroom-delivered Undergraduate Instructional Technology Courses. North Carolina State University, Raleigh, NC.
- 1998 Journal article: Instruction on the Web: The Online Student's Perspective. Mory, E., Gambill, L., and Browning, J. Eric Document #ED421090.

RESEARCH AND PROFESSIONAL HIGHLIGHTS

- 2011 – Co-developed and adviser for Health Business Informatics program (HBI) for Brunswick Community College.
- 2010 – present Brunswick Community College Green Super CIP representative for Engineering Technology.
- 2010 – present Institutional Review Board (IRB) design team member, Brunswick Community College, Supply, NC.
- 2010 – present Spearheading the BCC Bio-diesel project. Project will allow the college to produce bio-diesel from waste cooking oil.

- 2009 – present Research into the use of micro-blogging and mobile learning tools for supplemental classroom instruction.
- 2007 – present Started first radio station for Brunswick Community College. Started with Internet streaming, and podcasting. System to be later expanded to low-power FM broadcasting. Hire students, manage operations, designed/installed system, and supervise content/delivery.
- 2005 – Brunswick Community College CIP representative for Computer Security.
- 2006 Research into the use of wiki sites to enhance teaching of 7100 Computer Structures, a graduate class taught for Lesley University.
- 2006 Developed SUSE Linux-based server with group-ware, Samba Windows server emulation, FTP, and Apache web server integration. Custom wrote a Visual Basic application which includes: project management, daily task management, html generation, and FTP transfer capabilities.
- 2006 Developed directional “cantenna” for WIFI networking based on low-cost satellite dish components. Device successfully achieved highly directional WIFI broadcast.
- 2003 Developed container ship tracking application for local port authority which featured database integration, data archiving, HTML generation, and FTP.
- 2003 Developed *IT Tracker* a Palm client and Windows server application for IT support and management.
- 2003 Developed research design, tests, and student software applications for assessment of Eagle's NEST project, Pitt County Schools.
- 2000 Developed *MediLabelMaster*, prescription label-making software for animal clinics.
- 2000 Developed *MotorTrak*, a Palm OS application to track automobile maintenance.
- 2000 Developed *Ideas!* a Palm OS application to track ideas or thoughts.
- 1999 Research in comprehensive school reform, APPLE – Action on Principled Pedagogy and Learning Evaluation – A cooperative project between Duplin County Schools (NC), Barking and Dagenham Borough Schools (England), and Watson School of Education – UNC-Wilmington. Served on an evaluation team which made site visits, conducted observations, interviews, and final analysis of many different comprehensive school reform models in use around North Carolina.
- 1998 Headed the Donald R. Watson School of Education IP video project, UNC Wilmington. Project connected student interns, partnership teachers, and university

supervisors.

1998 Team taught the first eighty percent on-line instructional technology course in the UNC-W Watson School of Education.

PRESENTATIONS AND CONFERENCES

2011 Presenter: For AVID *Careers in Robotics (Boston Dynamics Big Dog, Davinci Surgery, and Combat Brushbots*, South Brunswick Middle School, Brunswick County, North Carolina.

2009 Presenter: *Doing More with Less: Aligning Freeware Applications with the North Carolina "Exploring Technology Systems" Curriculum* , NCCTTE Spring Conference. NCDPI sponsored event, N.C. A & T University, Greensboro, NC.

2009 Presenter: *Teaching and Learning with Smartphone Technologies: Is there a future?*, 26th Annual Atlantic Coast Business, Marketing, and Information Technology Education Conference (ACBMITEC), Raleigh, NC.

2009 Presenter: *Freeware for Business Education: Solutions for a tough economy*, 26th Annual Atlantic Coast Business, Marketing, and Information Technology Education Conference (ACBMITEC), Raleigh, NC.

2008 Key-note speaker for graduation ceremony, Lesley University, Cohort Eight, *Be True to Yourself*, Orangeburg, S.C.

2007 Presenter: *Python Programming 101*, 24th Annual Atlantic Coast Business, Marketing, and Information Technology Education Conference (ACBMITEC), Raleigh, NC.

2006 Community College Instructors Conference, Greensboro, NC.

2004 International Wearable Computer Conference, Reston, Virginia.

2004 Co-presenter with Pitt County Schools: Eagles NEST, NCDPI sponsored conference, Raleigh, NC and Greenville, NC.

1996 -- 2000 Presenter: Technology Portfolio/North Carolina Technology Portfolio and Essential Technology Skills Inventory (ETSI), Watson School of Education, UNC-Wilmington, Wilmington, NC.

2000 - Presenter: *Computer Probeware Use In The Science Classroom*, UNC-Wilmington Coastal Educational Technology Conference (CETC), Wilmington, NC.

1999 Representative from UNC-W, NCDPI Essential Technology Skills Inventory, Appalachian State University, Boone, NC.

ASSOCIATIONS AND PUBLIC SERVICE

2011 – Present, FISSEA (Federal Information Systems Security Educators' Association).

2008 – 2011 Elected advisory board member, State Employees Credit Union (SECU), Southport, NC.

2000 – 2004 Member of the North Carolina Coast Guard Auxiliary.

1999 Test Proctor, Southport Elementary School, Southport, NC.

CERTIFICATES, TRAINING AND SKILLS

2011 Protecting Human Research Participants. Certificate, National Institutes of Health (NIH). Certificate # 518814.

2010 Mediation Concepts Training Course, certificate, TWZ Enterprises.

2004 Security+ technology security certification, COMPTIA. Installation and setup of *Technauts* Linux server appliance, Cary, NC. Linux server designed for special purpose use such as: firewall, web server, email server, IDS system, etc.

1997 North Carolina teacher certification: Instructional Technology Specialist, Computer Education, Vocational Business Education.

1993 Certified in installation and maintenance of IBM ICLAS Novell menuing system, IBM. A batch file-based menu system for automating tasks in Novell Netware. Also certified in use of SABER-LAN menuing system for Netware.

1993 Certificate - advanced administration Novell Netware 3 & 4, Morrisville, NC.

2003 NC Curriculum Improvement Project (CIP) Computer Security training, New Bern, NC.

2003 NC CIP Windows 2003 Server installation training, Charlotte, NC.

2003 NC CIP Computer Advanced Computer Security training, Charlotte, NC. Project management/HRM: OpenWorkBench, SIMS, VMS, Blackboard, Netforum, Collegis/Eduprise, Campus Cruiser.

Operating systems and networking: Novell Netware, Linux, Windows, OS/2, DOS, VAX

VMS, Macintosh OS, Cisco router IOS, and many others.

Programming: Visual Basic.NET, Visual Basic 6, Visual Studio.NET, C, C++, JAVA, Python, HTML, LOGO, PHP, ROBOLAB, HL Assembly language, Microsoft Robotics Studio, COBOL, batch file programming, R, and other development systems.

Broadcast video production: Electronic News Gathering (ENG), digital and non-digital editing with Avid, Movie Maker, and Adobe Premier on Macintosh and PC.

Professional photography: Darkroom techniques, digital techniques, black and white film processing, color film processing, color slide processing, alternative processes, medium and large format camera operation, offset lithography, printing press operation, plate making, half-tone reproduction, and screen printing. Extensive experience in many traditional and digital methods.

Streaming media: Apple streaming server on Mac, Icecast and Shoutcast on Windows and Linux servers, Intel LANschool, and NCH Screen Stream.

REFERENCES

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