

Contact Information

Carl Nelson Blue

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Academic Background

- Assistant Professor - Tenure Track (2006 - present)
Industrial Technology - Graphic Communications Program, University of Northern Iowa, Cedar Falls, IA 50614
 - Coordinator for the Graphic Communications Program
 - Graduate Faculty Committee - 2 year term, Non-tenure member
 - Advisor to Graphic Communications Club "GraFX Club", and co-advisor National Association of Industrial Technology (NAIT) Student Club
 - Meeting Coordinator for the Department of Industrial Technology's Advisory Board
 - Computer Committee,
 - Search Committees (Graphics Instructor, Graphics Lab Manager, Chair of 2nd Lab Manager, and Department Chair of Department of Industrial Technology).
 - Departmental Website Committee
 - Academic Advisor to 80+ undergraduates.
- Graduate Studies
Ed.D in Technology Education with concentration in Curriculum and Instructional Technologies. 2003-2006. North Carolina State University (NCSU), Raleigh, NC.
 - Dissertation
The Affects of Standards-based Communication Technology Units on the Achievement of Selected Standards for Technological Literacy by Middle and High School Students in Technology Education.
 - Honors
Epilson Pi Tau (EPT)

MA in Industrial Technology with concentration in Technical Communications.
1999-2001 Appalachian State University (ASU), Boone, NC.

- o Masters Research

Research on perceptions of color preferences in web design.

- Undergraduate studies:

BS Communications Broadcasting with concentration in Graphic Design

Minor in Sociology, Appalachian State University, Boone, NC.

Academic/Teaching Experiences

- 1999 – 2001 Graphic Arts Labs –Screen Printing, Desktop Prepress, Layout and Dark Room Productions. (undergrads) Graphic Arts and Imaging Technologies, ASU.
- 2001 - 2003 Web page development I and II – Bi/Monthly workshops for faculty and staff, ASU, Office of Webmaster.
- 2002 Electronic Prepress – Fundamentals of desktop publishing for print preparation. Fundamental of web design and Flash animation. (undergrads) Graphic Arts and Imaging Technologies, ASU.
- 2003 - 2004 Communication Technologies I – Photography, Desktop Publishing and Printing Communication Technologies. (undergrads) Technology Education, NCSU.
- 2004 Educational Video– Fundamentals of developing and producing educational video for classroom, non-linear editing, Final Cut Express Labs. (graduates) Curriculum and Instruction, NCSU.
- 2005 Ceramics Technologies – Fundamentals of pottery, form and function, materials, design, and glazes. (undergrads) Technology Education, NCSU.
- 2005 Digital Communications – the study of the technology and processes that are need to produce and teach about Audio, Video, Lasers, GPS Communication technologies. (undergrads) Technology Education, NCSU.
- 2005 Animation: Flash. Teach the fundamental of using Flash as and animation tool to create an instructional tool. (Undergrads) Graphic Communications, NCSU
- 2005 Digital Imaging – the study of the technology and processes that are need to produce and teach about Digital Photography, Desktop Publishing and Printing Communication Technologies. (undergrads) Technology Education, NCSU.
- 2006 Digital Communications – the study of the technology and processes that are need to produce and teach about Digital Audio, Digital Video, Lasers, GPS Communication technologies. (undergrads) Technology Education, NCSU. Students produce Instructional and Educational videos.
- 2006 Communication Technology - Survey of tools, material, and processes used for the production of visual images and multimedia. Encompasses: technical drawing, printing, publishing, multi-media, and Internet technologies.
- 2006 Graphic Techniques - Study of the creation and conversion of graphics for print and cross-media applications. Portfolio development for print and online.
- 2006 Des Moines Area Community College - Carroll Campus Students in the UNI/DMACC/Carroll 2+2 program. Online Course. Communication Technology

- 2007 Communication Technology - Survey of tools, material, and processes used for the production of visual images and multimedia. Encompasses: technical drawing, printing, publishing, multi-media, and Internet technologies.
- 2007 Digital Imaging - analysis digital imaging technologies with an emphasis of those tools, materials, and processes used for the production and reproduction of static visual images for possible use in print, multimedia, and Internet technologies that will include taking original pictures, scanning, and digital imaging manipulation processes. Additionally course study will explore processes for developing images for presentations, animation, and video.
- 2007 Estimating and Management - Analysis of printing estimating that encompasses costing methods for digital and traditional graphic imaging. This course will also explore and evaluate management practices both historical and in the present day printing industry.
- 2007 Web Publishing- Survey of tools for creating websites with an emphasis on usability and accessibility. Included web maintenance, templates, and 2-D animation. (Summer)
- 2007 Scientific Visualization – Study of visualization tools for the creation of 2-D animations the explored scientific and technical processes.
- 2008 Communication Technology - Survey of tools, material, and processes used for the production of visual images and multimedia. Encompasses: technical drawing, printing, publishing, multi-media, and Internet technologies.
- 2008 Digital Imaging - analysis digital imaging technologies with an emphasis of those tools, materials, and processes used for the production and reproduction of static visual images for possible use in print, multimedia, and Internet technologies that will include taking original pictures, scanning, and digital imaging manipulation processes. Emphasis on using Macintosh computers, Xrite I-one for color management, and product shots.
- 2008 Estimating and Management - Analysis of printing estimating that encompasses costing methods for digital and traditional graphic imaging. This course will also explore and evaluate management practices both historical and in the present day printing industry.
- 2008 Advanced Copy Preparation – advanced desktop publishing with an emphasis on Adobe CS3 tools and Macintosh computers. Problem solving skills, group work, packaging, and variable data projects.
- 2008 Web Publishing- Survey of tools for creating websites with an emphasis on usability and accessibility. Included web maintenance, templates, and 2-D animation. (Summer)
- 2008 Web Publishing- Development of interactive Web sites with Web authoring tools; identification of targeted audience, Web site management, layout, and maintenance.
- 2008 Digital Prepress - Desktop composition, publishing technologies for developing prepress in a digital environment. Computer design/layout of publications including typography, color management, system configurations and applications. Collaborative projects in publications.
- 2008 Scientific Visualization - Creating 2D simulations and presentations with Flash. Developing data based graphics and charts. Producing technical presentations.

Exploring available digital technologies and visual tools for visualization and presentations.

Upcoming SPRING 2009

- 2009 - Graphic Communications Imaging - Explorations of conventional graphic arts imaging technologies. Screen printing preparation methods, 2 and 3 dimensional printing, and 4 color register printing; emphasis on technical information and laboratory experiences.
- 2009 - Graphic Communications Foundations II - Practices in multiple color stripping and plate-making, and operation of lithographic, single-color presses. Includes finishing and binding, flexography, and gravure. Collaborative projects with digital prepress.
- 2009 - Advanced Digital Prepress - Design, layout, and management of complex color publications for a digital workflow environment. Collaboration of the development of digital prepress projects to be coordinated and printed.

Technical and Specialized Skills

- Traditional Arts: acrylics, oil pastels, sketch and render drawing, 2-D design, 3-D modeling and ceramic pottery
- Proficient on PC or Apple platforms: Scanning, Electronic Imaging and Photography and Digital Cameras
- Desktop Publishing, Multimedia, Web Design, Accessibility Compliances and Usability in website maintenance, Film and Digital Video.
- SHOTS, by Sinapse: Sheet Offset Simulation Software: Training and Program Development

Related/Other Experience

After undergrad, two years in newspaper paste-up, layout, photography, dark room and desktop publishing, and part-time network TV news production crew, cameras, prompters, staging.

Seven years of corporate work for an International Chemical Textile Company, The Virkler Company, Charlotte, NC: Communications Specialist Marketing, Sales, and Promotional Materials. Trade show coordinator, International sales and operations manager of Dominican Republic Office.

Professional Development

- 2005 Leadership Conference EPT (Epsilon Pi Tau)

Research/Scholarly Activities

- 2001 Masters Research, Appalachian State University, Boone, NC: Color Preferences In Web Design.
- 2003 VTEA: Virginia Technology Education Association: Presented Information about TECHKNOW Project: Instructional Material for Technological Literacy.

- 2003 STEC: Southeastern Technology Education Conference, Atlanta, GA. Presented Information about TECHKNOW Project: Instructional Material for Technological Literacy.
- 2004 CRC: Competitive Regulations Committee. Nashville, TN Presented Information about TECHKNOW: Instructional Material for Technological Literacy.
- 2004 ITEA: International Technology Education Conference, Albuquerque, NM. Presented Information about TECHKNOW Project: Instructional Material for Technological Literacy.
- 2004 STEC: Southeastern Technology Education Conference, Chattanooga, TN. Presented Information about TECHKNOW Project: Instructional Material for Technological Literacy.
- 2005 ITEA: International Technology Education, Kansas City, Missouri. Published and presented paper on Interface Design Concepts for Updating the Universal Systems Model
- 2005 NCTTE: North Carolina Technology Teacher Educators. Published and presented peer reviewed paper on Masters Research on Color Preferences In Web Design (Shortened version.)
- 2005 TSA, Technology Student Association, Chicago, IL. Presented Information about TECHKNOW Project: Instructional Material for Technological Literacy.
- 2005 South Africa, Cape Town, World Wide Web Applications Conference. Published and presented peer reviewed paper on Masters Research, of Color Preferences In Web Design (Extended Version).
- 2005 STEC South Eastern Technology Education Conference, Clemson, SC. Present Information on status of the TECHKNOW Project: Instructional Material for Technological Literacy. Present Information on status of the ViSTE Project Technological Literacy through Visualization. Present research on Tec-mix 123 Concept: A process of teaching a Technological Method approach to the Systems.
- 2005 ACTE Association of Career and Technical Education Conference - Kansas City, MO
- 2005 Mississippi Valley Conference, St. Louis, MO
- 2006 NSF Fellowship IMD PI Conference, Washington DC
- 2006 ITEA Conference, Baltimore, MD Presented Techknow.
- 2006 ITEA Conference, Baltimore, MD Provided a Workshop Scientific Visualization - VisTE Project
- 2006 ASEE - Chicago, IL Presented the results from the VisTE Project
- 2006 Digital Game Expo, Raleigh, NC Attended the conference on Gaming Technologies.
- 2006 IGAEA Conference - San Luis Obispo - Cal Poly - Attended as a member of the Digital Wave Conference on Printing and Graphic Communication Technology.
- 2006 PIA/GRAF Teacher's Conference at the GRAPH EXPO, Chicago, IL (Member)
- 2006 NAIT Conference, Cleveland, OH, Attended as a member to the conference on Linking the World through Technology.
- 2006 Member of MAC Iowa - Marketing, Advertising & Communication Professionals of Northeast Iowa

- 2006 AGAEA - Visual Communications Journal 2006 - Middle and High School Communication Technology Curriculum that Addresses Mathematics, Science and Technology Education Standards. Peer reviewed article.
- 2007 Member of PIM - Printing Industries in the Midlands
- 2007 AGAEA - Visual Communications Journal 2007 - Does Access to Communication Technologies Outside the Classroom Have Significance in Student Learning? Peer reviewed article.
- 2007 Member of MAC Iowa - Marketing, Advertising & Communication Professionals of Northeast Iowa and Student Outreach Coordinator
- 2007 Member on University Of Northern Iowa Committee on Committees. An oversight committee on university wide committee election reviews.
- 2007 Special Committee for the Office of Graduate Studies to survey and review University of Northern Iowa's Departments and Programs policies and procedures
- 2007 AGAEA Conference - Rochester Institute of Technology Summer Workshops on Digital Printing. Rochester, NY July 2007.
- 2007 NAIT Conference - Panama City, FL. Two presentations:
 1. "Student Perceptions of Online Teaching and Learning Best Practices in Graphic Communications" co-presented with La Verne Abe Harris, Purdue University.
 2. "Color Preferences in Web Design 2.0" Logivity research into gender and color preferences in web color space.
- 2007 Meta Communications donation of \$20,000 value in software for digital workflow to University of Northern Iowa's Graphic Communications (GC) Program
- 2007 GC Students (group project) win Gold Award for their submission of a department newsletter, four-color digital print process from the Printers in the Midlands / Graphic Arts Technical Foundation.
- 2007 Awarded two-year \$30,000 grant from University of Northern Iowa's (UNI's) Recycle and Reuse Technology Transfer Center (RRTTC) for co-authored proposal to study, "A Ultra-violet Curable, Soy-based, Organic Screen Printing Ink project" in collaboration with (UNI's) Department of Chemistry.
- 2007 Secured a College of Natural Science purchase of 15 unit Macintosh Computer Lab and software for the GC Program. Set up for spring 2008 courses.
- 2007 faculty co-advisor for NAIT's Student Organization
- 2008 NAIT Graphic Communications Program accreditation review; department and program accreditation passed.
- 2008 Award research grant from: The Electronic Document Systems Foundation (EDSF) Research grant to develop white paper on the studies of "Color Preferences in Cyberspace", along with undergraduate team. FY 2008 (\$3000)
- 2008 GC Students (group project) win Silver Award for their submission of a department newsletter, four-color digital print process from the Printers in the Midlands / Graphic Arts Technical Foundation.
- 2008 UNI Special Committee for the Office of Graduate Studies to develop survey and review University of Northern Iowa's Departments and Programs policies and procedures.
- 2008 New GC curriculum developed for Fall Semester (created 2007). Migration from analog to digital technologies curriculum emphasis.

- 2008 Selected as member of the University's First Year College Committee on Faculty Diversity.
- 2008 22nd Automatic Identification & Data Capture Technical Institute, July 20 – 25th, Athens, Ohio.
- 2008 Selected as member of the University's Professional Development Assessment committee for awarding release time for research or artistic endeavors.
- 2008 NAIT Conference in Nashville, TN – Presentation: Snapshot of the modern technology education student: Students access to communication technologies outside the classroom.
- 2008 Mississippi Valley Conference in St. Louis, Missouri. Participant.
- 2008 National Science Foundation Regional Grants Conference in Omaha, Nebraska. Participant.
- 2008 PIA/GATF Training– SHOTS (Sheet-fed Offset Training Simulator) in Pittsburgh, PA.
- 2008 Electronic Document Systems Foundation (EDSF) – White paper based on the results of an EDSF funded research on Color Preferences in Web Design.
- 2008 Fall AGAEA Visual Communications Journal - Student Perceptions of Technologies Used to Teach a Graphics Course Online. Co-authored with Dr. La Verne Harris, Purdue University.
- 2008 - American Institute of Higher Education – American Journal of Educational Studies – Editorial Board.
- 2008 - Journal of STEM Education – Article reviewer on gaming and STEM education
- Late 2008: Curriculum updates for 2010. Inclusion of courses in electronics and computer science into GC Major's requirements through interdepartmental collaborations.

Fellowships

- Awarded National Science Foundation Fellowship IMD PI Conference, Feb. 26 - 28, 2006, Washington, D.C.
- Awarded Center for Energy and Environmental Education (CEEE) Fellowship for Spring Semester 2007, UNI.

Grants

(Involved with during doctoral studies as research assistant/writer)

- National Science Foundation Grant # ESI-0137811 VisTE Project
<http://www.ncsu.edu/viste>
- National Science Foundation Grant # 0095726-2010 Techknow Project
<http://www.ncsu.edu/techknow>

(Awarded)

- The Ultra-Violet Curable, Soy-based, Organic Pigment Screen Printing Ink Project - Recycle and Reuse Technology Transfer Center (RRTTC), University of Northern Iowa - FY07-08 (\$30,000).

- The Electronic Document Systems Foundation (EDSF) Research grant to develop white paper on the studies of “Color Preferences in Cyberspace”, along with undergraduate team. FY 2008 (\$3000)

(Submitted)

- 2008 submitted three-year, \$282,751.00, co-authored grant to the Iowa Energy Fund for the product development project for co-authored proposal to study, "A Ultra-violet Curable, Soy-based, Organic Screen Printing Ink project" in collaboration with (UNI's) Department of Chemistry.
- 2008 submitted three-year, \$398,576.00, as PI and co-authored with UNI's Educational Technology, and Curriculum and Instruction. *The Iowa Teacher Quality State Grant Program and Mathematics and Science Partnership Grant Program (Titles IIA and IIB of the No Child Left Behind Act). In collaboration with UNI and Waterloo's Community Schools. Entitled: "Waterloo Communications Technology Project: Expanding Learning Through Communications Technology"*

Service

- 2004 Alternative Spring Break, traveled with group of undergrads through NCSU to do service work in the city of San Francisco as an alternative Spring Break experience, Worked mainly with homeless programs.
- 2006 Alternative Spring Break, traveled to Tuba City, AZ to do service work with the Navajo and Hopi people and the Eagles Nest Elementary School.
- 2008 Wesley Foundation – Website redesign and content management training. Summer project.

Foreign Language Abilities/Skills

- Spanish Bilingual both written and spoken. Minimal comprehension of spoken languages include: Italian, Portuguese, and Romanian.

Advising

- 2006 – present: Graphic Communications Club (Advisor)
- 2007 – present: NAIT - National Association of Industrial Technologist (Co-Advisor)
- 2008 – Freshman Summer Orientation Advising for Industrial Technology

Consulting

- 2004-2005 Consulted and provided web design to the Office of Webmaster, ASU.
- 2006 - 2007 UNI Web Developers Forum for review and discussions of UNI websites
- 2006 – 2007 UNI Committee for seeking Grant options for technologies for people with disabilities.
- 2007-2008 UNI Special Committee for the Office of Graduate Studies to survey and review University of Northern Iowa's Departments and Programs policies and procedures
- 2007-2008 University Committee on Committees – Oversee campus elections
- 2008 University First Year College Committee- Faculty Diversity
- 2008 Wesley Foundation – Website consulting

Volunteer Work

US Peace Corps Volunteer, Honduras and Uruguay, 1989 – 1992
Provided practical assistance to individuals, local government agencies, and Peace Corps in areas of vocational education, small business and product development, marketing and tourism. Promoted to Volunteer Coordinator for the Director of the Small Business Development Sector. Assisted in development of workshops that included logistics and designing promotional and training materials.

Reassigned to South America as one of a five-volunteer team to re-open Uruguay USPC Program. Assisted in setting up the office, volunteer programs, site visits, and meeting with in-country organizations and leaders for the new incoming volunteers. Coordinated and produced several projects that included event logistics and travel. Designed, produced printed of in-house and outsourced training materials for both PC office and host-country organizations.

References:

Since 2006

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Ph: 319-273-2561
Email: mohammed.fahmy@uni.edu

Since 2003

Dr. Dick Peterson (retired)
231 Hollin Way
Winston-Salem, NC 27104
Ph: 336 529 9138
Email: re_pete_5@yahoo.com

Dr. Aaron Clark
North Carolina State University
Dept. of Math, Science, and Technology Education
Box 7801
Raleigh, NC 27695-7801
Ph: 919-515-1771
Email: aaron_clark@ncsu.edu

References continued...

Since 2001

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Since 2000

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