

Curriculum Vitae

Catalina G. Boudreaux

A.C.C.E.S.S. Office 972-238-6140

CBoudreaux@[dcccd.edu](mailto:cboudreaux@dcccd.edu)

Richland College
12800 Abrams Road
Dallas, TX 75243

Education

TULANE UNIVERSITY, New Orleans, LA

Ph.D. in Physics

TULANE UNIVERSITY, New Orleans, LA

M.S. in Physics

UNIVERSITY OF ZACATECAS, Zacatecas, Mexico

B.S. in Physics

Teaching Experience

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT, Dallas, TX, August 2011 – Present

Adjunct Professor – Conceptual Physics I and II
Conceptual Physics I and II Labs
College Physics I
College Physics I Lab
University Physics II
University Physics II Lab

UNIVERSITY OF TEXAS AT DALLAS, Dallas, TX, August 2012 – January 2013

Adjunct Professor – University Physics I
University Physics II

LOUISIANA STATE UNIVERSITY AT SHREVEPORT, Shreveport, LA, May 2011 – July 2011

Adjunct Professor – General Physics I Lab
General Physics For Science Majors I
General Physics I Lab For Science Majors

WHARTON COUNTY JUNIOR COLLEGE, Sugar Land, TX, July 2010 – January 2011

Adjunct Professor – General Physics I
General Physics I Lab

I certify that statements made by me in this vitae are true, complete and correct.

UNIVERSITY OF TEXAS AT SAN ANTONIO, San Antonio, TX, May 2006 – September 2009

Lecturer – Algebra-Based Physics I and II
Algebra-Based Physics I and II Labs
Engineering Physics I and II
Engineering Physics I and II Labs
Physics for Scientists II

PARKLAND COLLEGE, Champaign, IL, July 2005 – January 2006

Adjunct Professor – Developmental Algebra

MILLIKIN UNIVERSITY, Decatur, IL, July 2000 – September 2004

Assistant Professor - Basic Algebra
Intermediate Algebra
The Planets
The Planets Lab
Stars and Galaxies
Stars and Galaxies Lab
College Physics I and II
College Physics I and II Labs
University Physics I and II
University Physics I and II Labs
Modern Physics
Solid State Physics
Thermodynamics and Statistical Mechanics
Electromagnetism I and II
Quantum Mechanics

TULANE UNIVERSITY, New Orleans, LA, August 1995 – May 2000

Instructor – Introductory Physics I and II Labs
General Physics I and II Labs
Electric Circuits Lab
Optics Lab

UNIVERSITY OF ZACATECAS SCHOOL OF PHYSICS, Zacatecas, Mexico, September 1991 – June 1995

Adjunct Instructor – Radiation and Propagation of Waves
Electromagnetism
Electromagnetism Lab
Optics
Optics Lab
Mechanics Lab

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Publications and Papers

“*Shakeover Probability for Electron Capture*” The XXI International Conference on the Physics of Electronic and Atomic Collisions (XXI ICPEAC), July 1999.

“*Shakeover Probability for Electron Capture*” APR99, Meeting of the American Physical Society, March 1999.

“*Charge and Velocity dependence of the ratio of double to single ionization of H^- by Ar^{q+} and Xe^{q+} ”*
F. Melchert, et al., Phys. Rev. A **59**, 4379 (1999).

Certificates, Certifications & Other Qualifications

CENTER OF OPTICAL RESEARCH, Guanajuato, Mexico
Certificate in Applied Optics and Optical Research

CENTER OF COMPUTER INFORMATION SYSTEMS, Zacatecas, Mexico
Certificate of Programmer Analyst

- Proficient in computer programming and text formulating with the utilization of various software languages (C++, Fortran, Pascal, Basic, Latex & Unix Systems) and word processors (Word, Excel, Adobe Acrobat Pro, Scientific Word, etc.), as well as in the manipulation of various office equipment.
- Worked as a highly effective course instructor with professional, responsible teaching abilities.
- Successfully developed research skills in the areas of Theoretical Atomic Physics, Experimental Physics, and Astronomy; acquiring extensive knowledge in the operation of laboratory apparatuses.
- Efficient in deductive and inductive reasoning, problem solving sensitivity, information ordering, category flexibility, mathematical reasoning, number facility, and memorization.
- Fluent in speaking, reading, and annotating in the Languages of English and Spanish.

Relevant Work Experience

MEASUREMENT INC., RESEARCH & DEVELOPMENT, Durham, NC /METRITECH, INC., Champaign, IL,
March 2005 – March 2006

Physical Science Consultant / Physics Consultant

Provided professional services as a Physics and Physical Science Item Writer. In charge of the production and delivery of Physics and Physical Science Test Items, submitting these to the North Carolina Department of Public Instruction, to be used in the North Carolina Testing Program.

CENTER OF OPTICAL RESEARCH, Guanajuato, Mexico, Summer 1992

Optical Research Consultant

Primary Consultant, assisted in the design, development and manufacturing of various microscopes and reflective & refractive telescopes.

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Textbook Reviews

- “Physics: The Core Concepts”, First Edition 2011, Darin Zimmerman, McGraw Hill, ISBN: 0073404497, 11/18/2009
- “College Physics”, Third Edition 2010, Giambattista/Richardson/Richardson, McGraw-Hill, ISBN: 007351215X, 03/28/2009
- “Physics”, First Edition 2010, Darin Zimmerman, McGraw-Hill, ISBN: 0073404497, 03/23/2009
- “Introductory Calculus-Based Physics for Scientists and Engineers”, January 2009, Gerd Kortemeyer, Michigan State University, 02/25/2009

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