

Charles Allen

Angelo State University

Department of Physics and Geosciences

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Education

Year	Outcome	Program
1997	Graduate	Software Project Management, Software Quality Institute, UT Austin
1991	Ph.D.	High Energy Nuclear Physics, Purdue University
1981	M.S.	Physics, University of Illinois at Urbana-Champaign
1980	Sc.B.	Physics, Brown University

Teaching Experience

Period	Position
2015-present	Professor of Physics, Angelo State University
2009-2015	Associate Professor of Physics, Angelo State University
2002-2009	Assistant Professor of Physics, Angelo State University
2001-2002	Visiting Assistant Professor of Physics, Trinity University

Selected Research and Presentations

Year	Topic
2009	ASU Faculty Development and Enrichment Grant (with Dr. David Bixler), "Combined Lecture-Lab-Simulation Electronics Classroom"
2007	Charles C. Allen, "Fundamentals of Radiation", South Texas Chapter of the Health Physics Society, STC-HPS Science Teacher Workshop, College Station, Texas
2006	ASU Research Enrichment Grant (with Dr. Christian Poppeliers), "A Portable Parallel Computing Cluster for Student Research and Recruitment"
2004	ASU Technology Development Grant, "Integration of a Symbolic Answer Online Homework System"

Selected Publications

- Charles Allen, Physics 1401 Lab Manual, Angelo State University, 2007-present
- Charles Allen, Physics 1402 Lab Manual, Angelo State University, 2011-present
- Charles Allen, Physics 2425 Lab Manual, Angelo State University, 2012-present
- Charles Allen, Physics 2426 Lab Manual, Angelo State University, 2013-present
- Charles Allen, Physics 3444 Lab Manual, Angelo State University, 2008-present

Professional Affiliations

- American Association of Physics Teachers (AAPT)
- American Physical Society (APS)
- Institute of Electrical and Electronics Engineers (IEEE)

Courses Taught

Course Number	Course Title
CS-1301	Computer Literacy
PHYS-1181/1281	Freshman Seminar
PHYS-1304	Astronomy of the Solar System
PHYS-1103	Fundamentals of Astronomy Lab
PHYS-1401/1402	General Physics (and lab)
PHYS-2425	Fundamentals of Physics (and lab)
PHYS-3303	Dynamics
PHYS-3310	Computational Physics
PHYS-3331	Mechanics
PHYS-3341	Electricity and Magnetism (equivalent at Trinity)
PHYS-3444	Digital Electronics
PHYS-3461	Modern Physics
PHYS-4364	Advanced Physics (capstone course)
PHYS-4462	Applied Nuclear Physics
PS-1315	Introduction to Physical Science
PS-1115/1117	Introduction to Physical Science Lab
PS-3311/3312	Advanced Physical Science

Teaching Interests

- Computational Methods
- Experimental Physics and Scientific Writing
- Critical Thinking and the Scientific Method

Research Interests

- Artifact Reduction in X-ray Radiography and Tomography
- Intrinsically Collimated Detectors for Scatter Reduction in X-ray Radiography and Tomography
- X-ray Fluorescence Imaging