



Carlos Bertulani -- Curriculum Vita -- August 2026

Instructor: Carlos Bertulani, professor

University Address: Physics and Astronomy
Science
East Texas A&M University
PO Box 3011
Commerce, TX 75429-3011
Office Phone: 903.886.5488

University Email Address: carlos.bertulani@etamu.edu

Faculty Web Page Address: <https://faculty.tamuc.edu/cbertulani/>

EDUCATION

PhD., [University of Bonn](#), 1987 (*Summa Cum Laude*)

TEACHING EXPERIENCE

Spring 1980	Introductory Physics I	Physics for Engineers -- Mechanics -- UFRJ*
Fall 1980	Introductory Physics I	Physics for Engineers -- Mechanics -- UFRJ
Spring 1981	Introductory Phys III	Physics for Engineers -- EM & Optics -- UFRJ
Fall 1981	Introductory Phys III	Physics for Engineers -- EM & Optics -- UFRJ
Spring 1982	Introductory Phys II	Physics for Engineers -- Fluids/ Thermo -- UFRJ
Fall 1982	Introductory Phys II	Physics for Engineers -- Fluids/ Thermo -- UFRJ
Spring 1983	Introductory Phys IV	Physics for Engineers -- Modern Phys -- UFRJ
Fall 1987	Quantum Mechanics I	QM for Physics students -- UFRJ
Spring 1988	Nuclear Physics I	Nuclear Physics (graduate students) -- UFRJ
Fall 1988	Nuclear Physics I	Nuclear Physics (for graduate students) -- UFRJ
Spring 1989	Class. Electrodyn. I	Electrodynamics (graduate students) -- UFRJ
Fall 1989	Class. Electrodyn. I	Electrodynamics (graduate students) -- UFRJ
Spring 1990	Nuclear Reactions	Nuclear Reactions (graduate students) -- UFRJ
Fall 1990	Nuclear Reactions	Nuclear Reactions (graduate students) -- UFRJ
Spring 1991	Computational Physics	Computational Physics - Graduate -- UFRJ
Spring 1993	PHY208	Phys for Biology University Wisconsin, Madison
Summer 1994	Radioactive Beams	GSI/Darmstadt/Germany**
Fall 1994	Quantum Mechanics	Modern Physics -- UFRJ
Spring 1995	Quantum Mechanics	Modern Physics -- UFRJ
Fall 1995	Classical Mechanics III	Classical Mechanics -- UFRJ
Spring 1996	Classical Mechanics III	Classical Mechanics -- UFRJ
Fall 1996	Physics for Biology I	Physics for Biology -- UFRJ
Spring 1997	Physics for Biology I	Physics for Biology -- UFRJ
Fall 1997	Quantum Mechanics II	Quantum Mechanics - Graduate -- UFRJ
Spring 1998	Quantum Mechanics II	Quantum Mechanics - Graduate -- UFRJ
Fall 1998	Hadron Physics	Topics in Hadron Physics - Graduate -- UFRJ
Spring 1999	Hadron Physics	Topics in Hadron Physics - Graduate -- UFRJ
Spring 2002	PHY982	Nuclear Reactions - Michigan State U (MSU)***
Fall 2002	PHY232	<i>Electromagnetism</i> -- Michigan State University

Spring 2003	PHY184	<i>Mechanics</i> -- Michigan State University
Fall 2003	PHY184	<i>Mechanics</i> -- Michigan State University
Spring 2004	PHY982	Nuclear Reactions – Michigan State University
Fall 2004	PHYS 102	Introductory Phys I (Non-calculus) – U Arizona
Fall 2005	PHYS 241	Electromagnetism – Univ. of Arizona
Spring 2006	PHYS 142	Thermodynamics/Optics – Univ. of Arizona
Fall 2007	PHYS 111/111Lab	Mechanics/Thermodynamics/Waves – TAMUC
Fall 2007	PHYS 497	Nuclear Astrophysics - Graduate - TAMUC
Fall 2007	PHYS 597	Nuclear Astrophysics - Graduate - TAMUC
Spring 2008	PHYS 512	Classical EM - Graduate - TAMUC
Spring 2008	PHYS 112/112Lab	Thermodynamics/Waves/Optics - TAMUC
Fall 2008	PHYS 411	Classical Mechanics - Graduate - TAMUC
Fall 2008	PHYS 517	Mathematical Methods - Graduate - TAMUC
Spring 2009	PHYS 211/211Lab	Introductory Physics I - Mechanics - TAMUC
Spring 2009	PHYS 526	Modern Physics II - Graduate - TAMUC
Fall 2009	PHYS 497/PHYS 550	Nuclear Astrophysics - Graduate - TAMUC
Fall 2009	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Spring 2010	PHYS 512	Classical EM - Graduate - TAMUC
Spring 2010	PHYS 514	Statistical Physics - Graduate - TAMUC
Fall 2010	PHYS 517	Mathematical Physics I - Graduate - TAMUC
Fall 2010	PHYS 526	Modern Physics I - Graduate - TAMUC
Spring 2011	PHYS 2426	University Physics II - Undergraduate - TAMUC
Spring 2011	PHYS 141	Musical Acoustics - Undergraduate - TAMUC
Fall 2011	PHYS 597	Nuclear Astrophysics - Graduate - TAMUC
Fall 2011	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Spring 2012	PHYS 412/512	Electrodynamics - Graduate - TAMUC
Spring 2012	PHYS 141	Musical Acoustics - Undergraduate - TAMUC
Fall 2012	PHYS 2426	University Physics II - Undergraduate - TAMUC
Fall 2012	PHYS526	Atomic Physics - Graduate - TAMUC
Spring 2013	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Spring 2013	PHYS 141	Musical Acoustics - Undergraduate - TAMUC
Fall 2013	PHYS 450	Nuclear Astrophysics - Graduate - TAMUC
Fall 2013	PHYS 411	Classical Mechanics - Undergraduate - TAMUC
Spring 2014	PHYS512	Classical EM - Graduate - TAMUC
Spring 2014	PHYS 211	Physics I - Mechanics - Undergraduate - TAMUC
Fall 2014	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Fall 2014	PHYS 317	Mathematical Methods - TAMUC
Spring 2015	PHYS 141	Musical Acoustics - Undergraduate - TAMUC
Spring 2015	PHYS 514	Statistical Physics - Graduate - TAMUC
Fall 2015	PHYS 511	Classical Mechanics - Graduate - TAMUC
Fall 2015	PHYS 420	Quantum Mechanics - Undergraduate - TAMUC
Spring 2016	PHYS 512	Classical Electrodynamics - Graduate - TAMUC
Spring 2016	PHYS 311	Musical Acoustics - Undergraduate - TAMUC
Fall 2016	PHYS 512	Classical Electromagnetism - Graduate - TAMUC
Fall 2016	PHYS 411	Classical Mechanics - Undergraduate - TAMUC
Spring 2017	PHYS 131	Musical Acoustics - Undergraduate - TAMUC
Spring 2017	PHYS 550	Nuclear Astrophysics - Graduate - TAMUC
Fall 2017	PHYS 411	Advanced Mechanics - Undergraduate - TAMUC
Fall 2017	PHYS 511	Classical Mechanics - Graduate - TAMUC
Spring 2018	PHYS 414	Thermo & Statistics - Undergraduate - TAMUC
Spring 2018	PHYS 512	Classical Electrodynamics - Graduate - TAMUC
Fall 2018	PHYS 411	Classical Mechanics - Undergraduate - TAMUC
Fall 2018	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Spring 2019	PHYS 412	Classical EM - Undergraduate - TAMUC

Spring 2019	PHYS 1401	College Physics - Undergraduate - TAMUC
Fall 2019	PHYS 511	Classical Mechanics - Graduate - TAMUC
Fall 2019	IS 1315	Integrated Science I - undergraduate - TAMUC
Spring 2020	PHYS 512	Electromagnetism - Graduate - TAMUC
Spring 2020	PHYS 412	Thermodynamics - Undergraduate - TAMUC
Fall 2020	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Fall 2020	PHYS 411	Classical Mechanics - Undergraduate - TAMUC
Spring 2021	PHYS 412	Electromagnetism - Undergraduate - TAMUC
Spring 2021	IS 1315	Integrated Science I - Undergraduate - TAMUC
Spring 2022	PHYS 512	Classical Electrodynamics - Graduate - TAMUC
Spring 2022	PHYS 414	Thermo & Statistics - Undergraduate - TAMUC
Fall 2022	PHYS 411	Classical Mechanics - Undergraduate - TAMUC
Fall 2022	PHYS 520	Quantum Mechanics - Graduate - TAMUC
Spring 2023	PHYS 412	Electromagnetism - Undergraduate - TAMUC
Spring 2023	PHYS 514	Statistical Physics - Graduate - TAMUC
Fall 2023	PHYS 511	Classical Mechanics - Graduate - TAMUC
Fall 2023	IS 1315	Integrated Science I - Undergraduate - TAMUC
Spring 2024	PHYS 512	Electromagnetism - Graduate - TAMUC
Spring 2024	IS 1317	Integrated Science II - Undergraduate - TAMUC
Fall 2024	IS 1315	Integrated Science I - Undergraduate - ETAMU
Fall 2024	PHYS 411	Classical Mechanics - Undergraduate - ETAMU
Fall 2024	PHYS 501	P&A Colloquium Series - Graduate – ETAMU
Fall 2024	PHYS 401	P&A Colloquium Series - Undergraduate – ETAMU
Spring 2025	IS 1317	Integrated Science II - Undergraduate - ETAMU
Spring 2025	IS 1315	Integrated Science I - Undergraduate - ETAMU
Spring 2025	PHYS 501	P&A Colloquium Series - Graduate – ETAMU
Spring 2025	PHYS 401	P&A Colloquium Series - Undergraduate – ETAMU
Fall 2025	IS 1317	Integrated Science II - Undergraduate - ETAMU
Fall 2025	IS 1315	Integrated Science I - Undergraduate - ETAMU
Fall 2025	PHYS 501	P&A Colloquium Series - Graduate – ETAMU
Fall 2025	PHYS 401	P&A Colloquium Series - Undergraduate – ETAMU
Spring 2026	IS 1317	Integrated Science II - Undergraduate - ETAMU
Spring 2026	IS 1315	Integrated Science I - Undergraduate - ETAMU
Spring 2026	PHYS 501	P&A Colloquium Series - Graduate – ETAMU
Spring 2026	PHYS 401	P&A Colloquium Series - Undergraduate – ETAMU

* UFRJ = [Federal University of Rio de Janeiro](#), Brazil

** GSI/Darmstadt = [Gesellschaft fuer Schwerionenforschung, Darmstadt](#), Germany

*** MSU = [Michigan State University](#), USA

[University of Wisconsin](#), Madison, USA

[University of Arizona](#), Tucson, USA

TAMUC and ETAMU = [East Texas A&M University](#) (Former Texas A&M University-Commerce)

RESEARCH GRANTS AND AWARDS

- Department of Energy (DE-SC0026074), PI, Single Investigator, 2025-2027 (\$140,000).
- DOE-Pantex-Consolidated National Security, PI, Single Investigator, 2024-2026 (\$155,000).
- Department of Energy (DE-08ER41533), PI, Single Investigator, 2008-2025 (\$1,118,944).
- National Science Foundation (Accelnet, PHY-2114669), Co-PI, 2021-2028 (\$249,222).
- National Science Foundation (PHY-1415656), PI, 2014-2018 (\$350,000).
- Department of Energy (ER41706), PI, 2010-2014 (\$161,384).
- Department of Energy - SciDAC (FC02-07ER41457), Co-PI, 2006-2011 (\$3,000,000).

- Cotrell Corporation (ID:10497), PI, 2010-2011 (\$44,418).
- NSF (ID:1062613) - Research Experience Undergraduates, Co-PI, 2011-2014 (\$240,000).
- NSF (ID:OISE-0921447), PI, Pan-American Advanced Institute 2010 (\$88,500).
- Program for Excellence in Research (PRONEX), Co-PI, Brazil, 1996-2000, (USD\$500,000).
- CNPq and CAPES, Brazil, Graduate Director (UFRJ), PI, 1997-2000 (USD\$1,243,000).
- NSF - Brazil international collaboration (ID: 9001308), PI, 1990-1991 (USD\$13,860).
- NSF - Brazil international collaboration (ID: 9515510), PI, 1996-1997 (USD\$16,950).