

# Physics

---

Return to: College of Science (<http://catalog.utep.edu/grad/college-of-science/>)

The Department of Physics offers studies leading to the degree of Master of Science in Physics with experimental and/or theoretical physics research in Atmospheric Physics, Biophysics, Computational Physics, Material Science, Medical Physics and Nuclear.

## General Requirements

The normal prerequisite to graduate studies in the Department of Physics is the bachelor's degree in Physics with a B average in Physics courses taken at the undergraduate level. The bachelor's degree coursework should include advanced undergraduate courses in Mechanics, Electromagnetics, Modern Physics, Quantum Mechanics, Thermal Physics, and advanced laboratory practice. Any deficiency must be removed before the petition is made for candidacy for the MS degree.

## Chair

Mark Pederson (<http://facultyprofile.utep.edu/default.aspx?ID=mrpederson>)  
 Contact Information: [mrpederson@utep.edu](mailto:mrpederson@utep.edu) ([mtcortez@utep.edu](mailto:mtcortez@utep.edu));  
 Education: BS, University of Michigan; Ph D, University of Wisconsin

## Professor

Tunna Baruah (<http://facultyprofile.utep.edu/default.aspx?ID=tbaruah>)  
 Contact Information: [tbaruah@utep.edu](mailto:tbaruah@utep.edu); 915-747-7529  
 Education: Ph D, University of Pune

Rosa Fitzgerald (<http://facultyprofile.utep.edu/default.aspx?ID=rfitzgerald>)  
 Contact Information: [rfitzgerald@utep.edu](mailto:rfitzgerald@utep.edu); 915-747-7530  
 Education: BS, Universidad Nacional de Ingeniería; MS, Adelphi University; Ph D, University of California, Riverside

Jorge Lopez (<http://facultyprofile.utep.edu/default.aspx?ID=jorgelopez>)  
 Contact Information: [jorgelopez@utep.edu](mailto:jorgelopez@utep.edu); 915-747-7528  
 Education: BS, University of Texas at El Paso; MS, University of Texas at El Paso; Ph D, Texas A&M University

Felicia Manciu (<http://facultyprofile.utep.edu/default.aspx?ID=fsmanciu>)  
 Contact Information: [fsmanciu@utep.edu](mailto:fsmanciu@utep.edu); 915-747-8472  
 Education: BS, University of Bucharest; Ph D, The State University of New York at Buffalo

Mark Pederson (<http://facultyprofile.utep.edu/default.aspx?ID=mrpederson>)  
 Contact Information: [mrpederson@utep.edu](mailto:mrpederson@utep.edu);  
 Education: BS, University of Michigan; Ph D, University of Wisconsin

Rajendra Zope (<http://facultyprofile.utep.edu/default.aspx?ID=rzope>)  
 Contact Information: [rzope@utep.edu](mailto:rzope@utep.edu); 915-747-8742  
 Education: Ph D, University of Poona

## Associate Professor

Jose Bañuelos (<http://facultyprofile.utep.edu/default.aspx?ID=jlbanuelos>)  
 Contact Information: [jlbanuelos@utep.edu](mailto:jlbanuelos@utep.edu); 915-747-7535  
 Education: BS, New Mexico State University; Ph D, New Mexico State University; Postdoctoral, Oak Ridge National Laboratory

Ahmed El-Gendy (<http://facultyprofile.utep.edu/default.aspx?ID=aelgendy>)  
 Contact Information: [aelgendy@utep.edu](mailto:aelgendy@utep.edu); 915-747-6382  
 Education: BA, Alexandria University; MS, Alexandria University; Ph D, Heidelberg University

Lin Li (<http://facultyprofile.utep.edu/default.aspx?ID=lli5>)  
 Contact Information: [lli5@utep.edu](mailto:lli5@utep.edu); 915-747-8423  
 Education: BA, Huazhong University of Science and Technology; Ph D, Huazhong University of Science and Technology

Chunqiang Li (<http://facultyprofile.utep.edu/default.aspx?ID=cli>)  
 Contact Information: [cli@utep.edu](mailto:cli@utep.edu); 915-747-7537  
 Education: BS, Peking University; MS, Chinese Academy of Sciences; Ph D, Princeton University

Marian Manciu (<http://facultyprofile.utep.edu/default.aspx?ID=mmanciu>)

Contact Information: [mmanciu@utep.edu](mailto:mmanciu@utep.edu); 915-747-7531  
Education: BS, University of Bucharest; Ph D, State University of New York at Buffalo

Ramon Ravelo (<http://facultyprofile.utep.edu/default.aspx?ID=rravelo>)  
Contact Information: [rravelo@utep.edu](mailto:rravelo@utep.edu); 915-747-5620  
Education: BA, University of California, Santa Cruz; MS, Boston University; Ph D, Boston University

Srinivasa Rao Singamaneni (<http://facultyprofile.utep.edu/default.aspx?ID=srao>)  
Contact Information: [srao@utep.edu](mailto:srao@utep.edu); 915-747-5635  
Education: Ph D, Indian Institute of Science; Postdoctoral Scholar, University of Leuven; National Research Council Research Associate, North Carolina State University

## Assistant Professor

Eunja Kim (<http://facultyprofile.utep.edu/default.aspx?ID=ekim4>)  
Contact Information: [ekim4@utep.edu](mailto:ekim4@utep.edu); 915-747-8095  
Education: Ph D, Jeonbuk National University

Jorge Munoz (<http://facultyprofile.utep.edu/default.aspx?ID=jamunoz>)  
Contact Information: [jamunoz@utep.edu](mailto:jamunoz@utep.edu); 915-747-7541  
Education: BS, The University of Texas at El Paso; MS, California Institute of Technology; Ph D, California Institute of Technology

Harikrishnan Nair (<http://facultyprofile.utep.edu/default.aspx?ID=hnair>)  
Contact Information: [hnair@utep.edu](mailto:hnair@utep.edu); 715-747-7544  
Education: Ph D, Indian institute of Science, India

Yun-Pil Shim (<http://facultyprofile.utep.edu/default.aspx?ID=yshim>)  
Contact Information: [yshim@utep.edu](mailto:yshim@utep.edu); 915-747-8355  
Education: BS, Seoul National University; Ph D, The University of Texas at Austin

Kedron Silsbee (<http://facultyprofile.utep.edu/default.aspx?ID=kpsilsbee>)  
Contact Information: [kpsilsbee@utep.edu](mailto:kpsilsbee@utep.edu);  
Education: MA, Princeton University; Ph D, Princeton University

## Assistant Professor of Instruction

Maria Gonzalez (<http://facultyprofile.utep.edu/default.aspx?ID=mdgonzalez7>)  
Contact Information: [mdgonzalez7@utep.edu](mailto:mdgonzalez7@utep.edu);  
Education: MS, New Mexico State University; Ph D, New Mexico State University

Héctor Noriega-Mendoza (<http://facultyprofile.utep.edu/default.aspx?ID=hnoriega>)  
Contact Information: [hnoriega@utep.edu](mailto:hnoriega@utep.edu); 915-747-5610  
Education: MS, Universidad Nacional Autónoma de México (UNAM); MS, New Mexico State University (NMSU); Ph D, Universidad Complutense de Madrid (UCM, Spain)

## Senior Lecturer

Karla Carmona Miranda (<http://facultyprofile.utep.edu/default.aspx?ID=kcarmona>)  
Contact Information: [kcarmona@utep.edu](mailto:kcarmona@utep.edu); 915-747-7549  
Education: MS, University of Texas at El Paso

## Programs

### Master of Science

- M.S. in Physics (<http://catalog.utep.edu/grad/college-of-science/physics/physics-ms/>)

### Certificate

- Graduate Certificate in Physics (<http://catalog.utep.edu/grad/college-of-science/physics/graduate-certificate-physics/>)

The University of Texas at El Paso

Department of Physics

Physical Science Building, Room 210  
Phone: 915.747.5715

Email: [physics@utep.edu](mailto:physics@utep.edu)

Visit Department Website (<https://www.utep.edu/science/Academic%20Programs/Physics.html>)