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# M.S. Degree in Applied Optics

The Master of Science in Applied Optics will focus on the emerging areas of laser spectroscopy, biophotonics and nanophotonics which play a critical role in advancing technologies such as telecommunications, homeland security, computing, medical diagnosis, environmental sciences and disease management and treatment.

In addition to placing particular emphasis on the emerging areas of nano- and bio-photonics, and student in this M.S. program will take part in many challenging and exploratory projects based on optical nanotechnology and its applications to aid the health related sciences.

Students in the M.S on Optics Program will be required to complete a research thesis an oral defense of it. The M.S. in Applied Optics has a typical duration of two to three years for full-time students.

The foundations for the M.S. Program in Applied Optics ? which was established in 2008 ? were laid by the DSU Center for Research and Education in Optical Sciences and Applications (CREOSA). Given the interdisciplinary opportunities that optics presents, students in the M.S. Program in Applied Optics will have the same opportunities.

Interested students, researchers and engineers can obtain more information by contacting the DSU Department of Physics at (302) 857-6659.

## CREOSA Research Projects

Laser-Induced Breakdown Spectroscopy ? Dr. Noureddine Melikechi, Dr. Aristides Marcano, Dr. Vesna Zelikovic

Photothermal Lens Spectroscopy ? Dr. Aristides Marcano, Dr. Noureddine Melikechi

Optical Solitons ? Dr. Anjan Biswas, Dr. Dawn Lott

Single-Molecule Spectroscopy ? Dr. Chandran Sabanayagam

Electromagnetically Induced Transparency and Slow Light ? Dr. Gour Pati

Nanophotonics ? Dr. Chandran Sabanayagam, Dr. Gour Pati

Data Mining of Spectroscopy Data ? Dr. Dragoljub Pokrajac

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