

On-Going Research Projects

- Organic and Bioorganic: Applications of novel heterocycles and combinatory chemistry; bioactive molecules and natural product
- Chemical Biology: Blood coagulation and fibrinolysis S-100 protein family in cellular process. Molecular modeling on enzymes functionality.
- NanoScience: Covalent functionalization of carbon nanotubes and nanocomposites; Theoretical modeling of properties of carbon-nanotubes.
- Inorganic Chemistry: rational approach to manipulating the structure and properties of transition metal phosphates; Bioglass and nanostructured materials for bone repairs. Immobilized cobalt on silica support as dioxygen catalyst.
- Analytical Chemistry: Surface and interfacial characterization as it relates to environmental problems.

Financial Support

Students admitted in Fall 2006 to the MS program received a minimum stipend of \$900 per month as teaching assistant, and applicable out-of-state tuition waiver for non-residents. Graduate students employed as Research Assistant may receive a total stipend of up to \$1,800 per month.



PRAIRIE VIEW A&M UNIVERSITY

Department of Chemistry

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Recruitment coordinators
Dr. Carty (afcarty@pvamu.edu)
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Dr. Porter (tnporter@pvamu.edu)

Did you know?

Named for plantation home of Col. Jack Kirby; later became a girls' school. Property deeded to state in 1876; legislature established college for black youths on the site, now Prairie View A&M Univ.

— from "The Official Site of Texas Tourism"

PRAIRIE VIEW A&M UNIVERSITY

Master of Science in Chemistry



**DEPARTMENT OF
CHEMISTRY**

936-261-3104

MASTER OF SCIENCE DEGREE IN CHEMISTRY

The Master of Science degree in the Department of Chemistry offers a wide array of academic and research opportunities. Such opportunities include an interdisciplinary approach to research and laboratory skill necessary to enter professional or doctoral program, and continue life-long learning. Student success is facilitated by a low student/faculty ratio, with modern instrumentation.



Facilities and Equipments

- High Field NMR laboratory with state of the art Varian 400 MHz NMR Spectrometer with associated work station
- Chromatography facilities including 2 GC-with FID, GC-MS, and HPLC.
- Material Characterization facilities including X-ray photoelectron, FT-IR, Thermal Gravimetric Analyzer and Differential Scanning Calorimetry, ICP, AA.
- Other Equipment including electronic circular dichroism spectrometer, Fluorometer
- Magnetometer, CD, Polarimeter, etc

ADMISSION REQUIREMENTS

Students who plan to apply for a M.S. degree in chemistry must fulfill the following undergraduate requirements: two semesters of inorganic chemistry, one semester of analytical chemistry, two semesters of organic chemistry, and two semesters of physical chemistry. It is expected that the average grades in these chemistry and related courses will not be less than a grade of "C". A student whose overall GPA in graduate coursework falls below 3.0 on a 4.0 scale will be required to demonstrate improvement during the next enrollment or be discontinued in the program. The Department reserves the right to administer a qualifying examination to these students and to advise them on courses they can take to successfully complete the program.

A diploma of Master degree in Chemistry is a proud symbol of your personal and professional achievement.

The Good Old Days!



Faculty and Staff

- Aderemi Oki, *Head, Inorganic, Biomaterials*
- Ananda Amarasekara, *Organic/Polymer*
- Antoine F. Carty, *Organic*
- Vasant M. Doctor, *Biochemistry*
- Hua-Jun Fan, *Inorganic Computational*
- Hylton G. McWhinney, *Analytical*
- Tamiko Porter, *Biochemistry*
- John R. Williams, *Physical*
- Mr. Mark Williams *Manager of Labs*
- Mr. Alonzo Williams *Laboratory Technician*
- Mrs. Earline H. Ragston *Secretary*