

**FLORIDA DEPARTMENT OF EDUCATION
K-12 EDUCATION
BUREAU OF CURRICULUM AND INSTRUCTION**

**GOVERNOR'S SUMMER PROGRAM
FOR GIFTED AND HIGH-ACHIEVING STUDENTS
PROGRAM ABSTRACTS
2009**

The purpose of the Governor's Summer Program is to provide an opportunity for outstanding gifted and high-achieving students to participate in and use the resources of the universities and colleges in the State of Florida. Institutions of higher education, public or private, submit proposals to provide day or residential summer programs for gifted and high-achieving students entering grades 8-12. The goal is to use the academic strengths and unique instructional resources of the sponsoring institution to provide participating students with learning experiences not available in their secondary education programs.

Note: Direct all inquiries about specific programs to the contact person listed.

**Florida Atlantic University
*Engineering Scholars' Program***

The *Engineering Scholars Program*, to be held June 8-26, is a day program providing dual-enrollment courses in Electronic Design with Operational Amplifiers, Ocean Engineering and Underwater Vehicles, New Generation Web Technologies, and Innovative Materials for Infrastructure, for at least 80 high-achieving 10th to 12th graders of Broward and Palm Beach counties. Faculty experienced with gifted students will utilize state-of-the-art College of Engineering and Computer Science laboratories to provide challenging hands-on educational opportunities not available in high schools, to help students develop problem solving skills and prepare for university studies. Team projects are emphasized. Sunshine State Standards are incorporated. Program information and application will be available online at <http://www.dess.eng.fau.edu/esp.htm>.

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**Florida Community College at Jacksonville
*Destination Space 2009: A Summer Exploration in
Aerospace and the Commercial Space Industry***

This program is being offered through the Aviation Center of Excellence located at the College's Cecil Center. This no-cost, two week day camp will be held July 13 - 24, 2009, for 25 students from Duval, Nassau, St. Johns and Clay counties entering grades 8 to 10. During the daily eight-hour sessions, students will participate in intensive higher levels of study in aerospace-related to science, technology, engineering and mathematics (STEM) principles. The camp will include studies in the field of aerospace including subject matter such as: aeronautics with emphasis in the aerodynamics of both air breather and rocket propulsion vehicles; visual, electronic, and celestial navigation; physiology in high risk environments; concepts of air traffic control; physics; and advanced mathematics with practical applications in the science of suborbital space travel as well as an orientation to astronomy.

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Manatee Community College

Fishing for the Truth: Multidisciplinary Explorations into Crime Scene Investigations

This is a noncredit day program for 24 qualified gifted and high-achieving students, grades 10-12, in Manatee and Sarasota counties (urban and rural). It will run for four weeks, July 6-30, 2009, four days a week, six hours a day at the college. Activities infuse the social and natural sciences, information technology, mathematics and 21st century workplace skills with advanced critical thinking required by crime-scene investigations. Participants learn and apply law-enforcement/forensics practices, including DNA laboratory activities and present their investigative conclusions to a prosecuting attorney. No fee required.

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Palm Beach Community College

Math and Science Institute (MSI) Summer Program

Responding to the school district, industry, and emerging workforce trends, the college is offering a unique interdisciplinary model to connect students to the growing fields within Biotechnology and Environmental Science studies. The program will offer 30 rising 11th and 12th graders a rigorous college credit program in emerging industries such as biofuels and ethanol production from vegetation, as well as authentic field-based experiences that will serve as a model for interdisciplinary studies. The program will run for eight weeks from June 8 – August 7, 2009, Monday through Thursday from 10 a.m. to 3:00 p.m. Seventy percent of authentic learning experiences within authentic learning environments are planned (e.g. Scripps Research Institute, South Florida Water Management District, Advanced Water Technology, Cytonics Corporation, Ocean Ridge Biosciences, and TransDermal Technologies.

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South Florida Community College

Dynasties, Dragons, and Drums

This is an innovative college credit day program for gifted and high-achieving students that will focus on an interactive, anthropological study of ancient China through literature and art. The program is designed to accommodate twenty-five students entering grades 9-12 who have an interest in learning more about Chinese culture and the performing arts. This will be a five week course from June 8 – July 10, 2009. Participating students will have an opportunity to earn three hours of transferable college credit in an enriching, creative environment from a panel of experienced, qualified college faculty. Students will be expected to demonstrate their acquisition of knowledge through a variety of multidisciplinary assignments and activities, as well as participation in a final performance.

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