**General Information**

**Where are sessions held?**
Summer STEM Challenges will be offered at Delgado City Park campus. Other campuses will offer similar programs.

**How long does the program run?**
Sessions are designed to meet 4 days a week for 1 week. Each lab day consists of a 6 hour block from 9am-3pm.

- First session dates: July 6-9 2015
- Second session dates: July 13-16 2015
- Third session dates: July 20-23 2015

**Who should enroll?**
Enrollment is open to all traditional, non-traditional students from 9-13 years old. Students should be intellectually and emotionally mature enough to follow instructions and perform in this advanced learning environment.

**How much does it cost?**
Total cost is $150 for the 4 day session. Discounted non-refundable reservation before May 1 2015 $75 with $25 balance due on the first day of the session. Additional class sessions $75 per session.

**How do I enroll?**
Interested individuals should enroll online or contact Ms. Lillie Fleury, STEM Middle School Academic Advisor: (504)671-5634

http://tinyurl.com/DCCMSSTEM


btech@dcc.edu

Payments can be made by check. Mail to: Delgado Community College Biology Dept. Summer STEM Challenges 615 City Park Ave New Orleans, LA 70119

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**Instructors**
Clint Coleman Ph.D.
Natasha Flowers M.S.
Brent Fodera M.S.
James Guenther Ph.D.
Christopher Leblanc Ph.D.
Marceau Ratard Ph.D.
Sharon Ziadeh M.S.

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**What you didn’t know about summer programs offered at Delgado**

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**What is the Delgado Summer STEM Challenges Program?**

The Delgado Summer Science, Technology, Engineering and Mathematics (STEM) Challenges is a summer initiative to provide middle school students access to innovative procedures and techniques used in modern science laboratories. These intense 1-week sessions are held at Delgado City Park.

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**What is Unique about the Delgado Summer STEM Challenges?**

The Delgado Summer STEM Challenges is not your average middle school science class experience. The sessions are designed to captivate the students’ imagination and creativity by giving them unique hands-on experiences while learning about sciences. Many of the skills presented are highly sought after by industry and higher academia.
COURSE OVERVIEW

Each session runs for 1 week, and is designed to introduce students to general laboratory practices such as laboratory safety, Material Safety Data Sheets (MSDS), metric system, solution preparation, and volume measurements. Students will then learn the basics about cellular functions and growth, site directed mutagenesis, bacterial transformation and bacterial DNA.

Course Outline

Day 1
Laboratory orientation
Microscopy
Cell structure
Cell culture

Day 2
Microbiology
Structural biology
Introduction to DNA

Day 3
Introduction to Chemistry
Chemical reactions
Biochemistry

Day 4
Geological sciences
Wetlands biodiversity
Introduction to Physics
Open house