

# M STEM ACADEMY



SCIENCE · TECHNOLOGY · ENGINEERING · MATHEMATICS

## Summer Learning FUN!

[www.mcneese.edu/STEMacademy](http://www.mcneese.edu/STEMacademy)

For Students entering 1<sup>st</sup> – 8<sup>th</sup> Grade

### Topics\*

#### Engineering Equipment

- Hoist, Crane, Gears
- Wheel Drives, Axles
- Mechanical Hammer
- Windmill, Fork Lift
- Levers, Pulleys
- Plant Pollination
- Motors

#### Bridge Design

#### Lego WeDo 2.0 Robotics

#### MagLev Systems

#### Bioplastics

#### Recycled Material

#### Mechanical Timers

#### Rockets and Rovers

#### Earthquakes

#### Oil Spill Cleaning

#### Insulated Homes

#### Vertical Farms

#### Play Dough Chemistry

#### Evasive Species

#### Plant Packages

#### Water Resources

\* Selected list of topics, not all-inclusive

**Experience the human-made world through technologies we use every day. See how engineering makes science and math relevant. Explore careers in STEM fields.**



May 28 – Aug. 9, 2019

7:30 a.m. – 5:30 p.m.

Drew Hall,  
McNeese Campus

337-562-4137



### **Activities**

Projects  
Research  
Field Trips  
Computer Time  
Problem Solving  
Career Exploration  
WeDo Lego Robotics  
Gym, Pool Time  
Art/Reading

Register at [www.mcneese.edu/STEMacademy](http://www.mcneese.edu/STEMacademy)

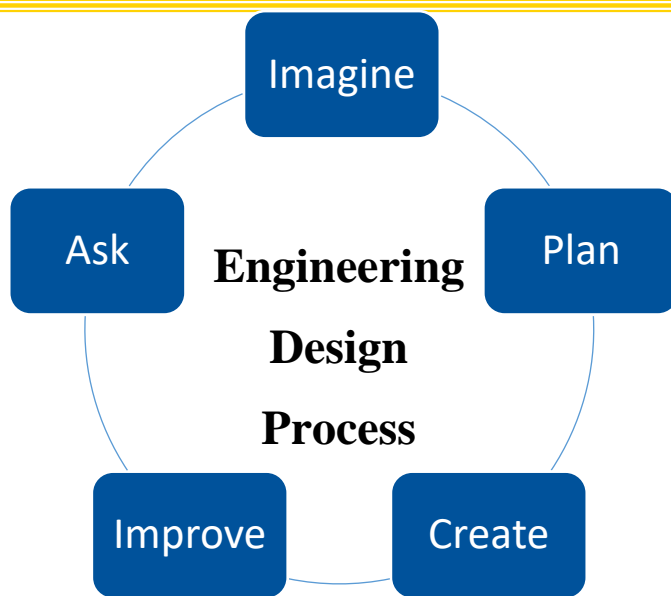


## Our Sponsors



- One-time registration fee of \$80
- 5 T-shirts, notebook provided
- \$200 weekly (less than \$5 per hour)
- Bring your own lunch, bottled water provided. (No refrigeration or heating)
- Students less than 4 foot in height and/or unable to pass a swim test are required to bring an American Red Cross certified swim vest.

**Project Based**  
**Hands-on Activities**  
**Design, Create, Build**  
**Create, Innovate**  
**Explore Careers**



**Mission Statement:** The **McNeese STEM Academy** seeks to inspire and motivate young minds to explore the world around them and imagine, create, test and improve economically attractive solutions that solve everyday problems. The Academy uses engineering applications as the means to teach students critical thinking, problem solving and innovation principles through fun, imaginative, hands-on exploratory activities that integrate math and science content. The classroom experience is reinforced during field trips where participants are exposed to real-life solutions of problems investigated in the classroom. Emphasis is given in career exploration and oral/verbal communication of the solutions created by the participants.