

STEM JUMPSTART PATHWAYS at LEE

Lee Magnet High School is leading the state in STEM Pathways developed in partnership with Louisiana State University. Students complete eight courses from the approved list, including required core electives (*), and then an Advanced JumpStart Credential is issued by LSU. In Summer 2018, LEE, LSU and LDOE will bring the Digital Design & Emergent Media JumpStart Pathway to BESE for approval. Biomedical and Computational Thinking JumpStart Pathways are still under development but will be presented to BESE for approval in Summer 2019.

- Yr1

Intro to Engineering *
Intro to Computational Thinking *
- Yr2

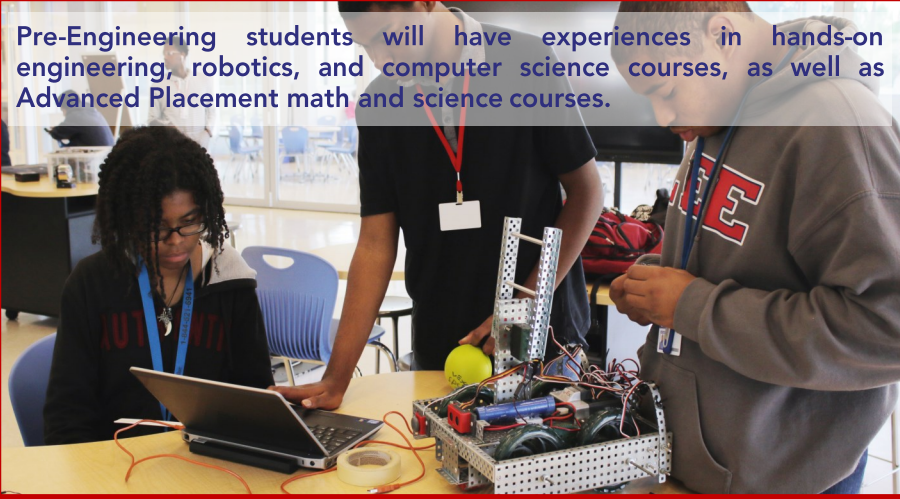
Intro to Robotics *
Programming for Engineers
Principles of Engineering
- Yr3

Engineering Design & Development *
Data Manipulation and Analysis
Advanced Robotics
- Yr4

Engineering Capstone *
Engineering Economy
- Other Recommended Courses:

Statistical Reasoning/AP Statistics
Advanced Math DE
AP Calculus AB, BC
AP Computer Science A, Principles
AP Biology/Biology II/Biology DE
AP Chemistry/Chemistry II/Chemistry DE
AP Physics I&II, C:M, C:E&M
AP Environmental Science/Coastal Studies DE

Pre-Engineering



Digital Design & Emergent Media

Digital Design & Emergent Media students produce intertwining content from interdisciplinary entertainment fields such as digital media, interactive design, art, and creative coding.



- Yr1

Digital Story Telling *
Intro to Computational Thinking *
- Yr2

Programming for Digital Media *
Intro to Film, Photography or Music
- Yr3

Coding for the Web *
Web Design & Structure
Digital Image& Motion Graphics
Intermediate Photography
Intermediate Film
Sound Design (DE)
- Yr4

Interactive Digital Media Capstone *
Video Game Design
Advanced Film
Film & Television
Advanced Photography
AP Music Theory

- Yr1

Intro to Biomedical Sciences *
Intro to Computational Thinking *
- Yr2

Comparative Anatomy & Physiology *
Modeling & Simulations
- Yr3

Ecology Lab *
Sports Medicine I
Forensic Science
Data Manipulation and Analysis
- Yr4

Biomedical Capstone
Research Methodology
Microbiology
- Other Recommended Courses:

Statistical Reasoning, AP Statistics
Advanced Math DE, AP Calculus AB, BC
AP Computer Science A, Principles
AP Biology/Biology II/Biology DE
AP Chemistry/Chemistry II/Chemistry DE
AP Physics I&II, C:M, C:E&M
AP Environmental Science/Coastal Studies DE

Biomedical



Computational Thinking

Computational thinking students gain programming experience while enhancing their mathematical skills through problem-solving scenarios that involve science, engineering, and mathematics.



- Yr1

Exploring Computer Science *
Intro to Computational Thinking *
- Yr2

Computer Science I *
Modeling and Simulations
- Yr3

Computer Science II *
Data Manipulation and Analysis *
- Yr4

AP Computer Science A
AP Computer Science Principles
Computer Science Capstone

Other Recommended Courses:
Programming for Digital Media
Programming for Engineers
Coding for the Web