GOAL

Increased preparedness for collegiate studies in the biological sciences, while providing opportunities for experiential learning and cultivating effective communication skills.

STEM ENDORSEMENT

https://louisianabelieves.com/courses/louisiana-stem-initiative

- Silver Endorsement: Take the four required Biomedical Science core courses.
- Gold Endorsement: Take any additional four elective courses listed on the Biomedical Sciences pathway brief

WHO DOES THE PATHWAYS?

Students:
Any TOPS University or TOPS Tech student

Teachers: Any teacher who is certified by LSU to teach the LSU electives

WHY DO THE PATHWAYS?

Earn up to $482 per student/course for the district in Career Technical Education and Career Development Funds

Schools earn 150 SPS points for students earning Advanced Statewide Industry Based Certifications (select courses only)

Students earn LSU credit (select courses only) and take high quality project-based courses, and can qualify for an LSU freshman scholarship

Computing Pathway

Louisiana State University

LSU

Middle & High School Counselors

Is This For Your Students?

Yes! Every TOPS University or TOPS Tech diploma-seeking student can enroll.

Requirements for Silver STEM Diploma Seal:

» Introduction to Computational Thinking
» Cybersecurity
   OR AP Computer Science Principles
» Survey of Computer Science
   OR Interactive Computing
» Data Manipulation & Analysis
   OR Programming for STEM

Requirements for Gold STEM Diploma Seal:

» All four courses required for Silver
» Four additional courses from the list found at:
   www.brbytes.org/ComputingBrief.pdf

Statewide Computing Credentials Available:

» Computing and Computer Science - LSU Partnership Regional Core Credential
» CIW Network Technology Associate
» CIW JavaScript Specialist
» CIW Database Design Specialist
» CIW Web Security Specialist
» CompTIA A+ Certification
» CompTIA Fundamentals
» Network+ Certification
» Security+
» Operation Spark Fundamentals of JavaScript, Functional Programming and Web Development (Level 1)

Many LSU Computing Pathway courses also apply toward other Jump Start 2.0 Graduation Pathways

Introduction to STEM Pathways & Careers (061139)

Survey of Computer Science (061179)

Introduction to Computational Thinking (061140)

Data Manipulation & Analysis (080532)

Introduction to Cybersecurity & Networking (040217)

Interactive Computing (061180)

Programming for STEM (144300)
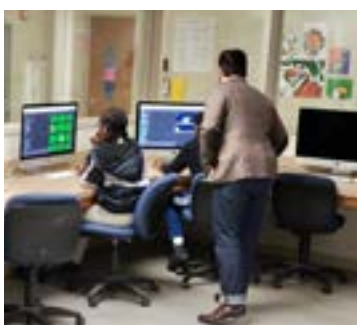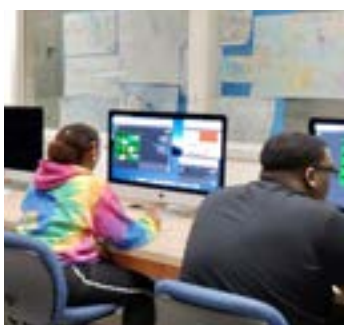
BR BYTES

brbytes.org

GOAL

Increase the number of students with digital design & media production skills by providing a pathway of courses to develop a portfolio of work and receive an industry based credential.

STEM ENDORSEMENT

https://louisianabelieves.com/courses/louisiana-stem-initiative

- Silver Endorsement: Take the four required DDEM core courses.
- Gold Endorsement: Take any additional four elective courses listed on the DDEM pathway brief

WHO DOES THE PATHWAYS?

Schools who want to combine digital media classes with STEM skills, putting students on a pathway to either industry or college (TOPS University or TOPS Tech)

Teachers receive STEM training to teach the LSU courses

WHY DO THE PATHWAYS?

Earn up to $482 per student/course for the district in Career Technical Education and Career Development Funds

Schools earn 150 SPS points for students earning Advanced Statewide Industry Based Certifications (select courses only)

Students earn LSU credit (select courses only) and take high quality project-based courses, and can qualify for an LSU freshman scholarship

LSU

GOAL

Increase the number of both college bound and career bound students completing a series of courses along a pre-engineering pathway to provide them with a tangible skill set and an industry based credential.

STEM ENDORSEMENT

https://louisianabelieves.com/courses/louisiana-stem-initiative

- Silver Endorsement: Take the four required pre-engineering pathway courses.
- Gold Endorsement: Take any additional four elective courses listed on the pre-engineering pathway brief

WHO DOES THE PATHWAYS?

Students: Any TOPS University or TOPS Tech student

Teachers: Any teacher who is certified by LSU to teach the LSU electives

WHY DO THE PATHWAYS?

Earn up to $482 per student/course for the district in Career Technical Education and Career Development Funds

Schools earn 150 SPS points for students earning Advanced Statewide Industry Based Certifications (select course only, IBC: Autodesk Inventor)

Earn LSU credit (select courses only) and take high quality project-based courses

Students have the opportunity to qualify for a $1,500 LSU Engineering freshman scholarship