

LSU STEM PATHWAYS

LSU

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Center for STEM Literacy

STUDENTS

Students in 9th-12th grade on **Tops University** or **Tops Tech** diplomas can take project-based courses that lead to the opportunity to earn high-wage, high-demand industry based credentials and college credit (select courses). Additionally, students can earn silver and gold STEM endorsements and qualify for scholarships to LSU.

TEACHERS

High school teachers have the opportunity to teach hands-on STEM courses and become STEM leaders at their schools. There are also opportunities to earn graduate credit for professional development and participate in educational research.

SCHOOLS

High school districts can generate CDF and/or CTE funding for select courses. Additionally, courses with embedded Industry Based Credentials and Dual enrollment carry additional School Performance points.

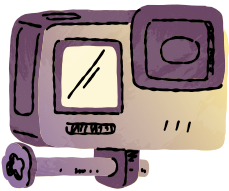
Computing and Cybersecurity

Computer Science and Cybersecurity covers the theory, design, development, and application of computers and software. This includes programming languages, safeguarding of private information, algorithms, databases, and computer networks.



Digital Design & Emergent Media

Digital design and multimedia is crucial in today's world due to the increasing importance of technology and the internet. Media and technology must be used safely and in an ethical manner to maximize the impact on society.



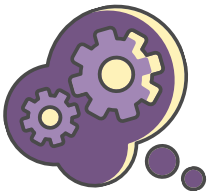
Environmental Protection & Sustainability

Understanding how to protect the environment and design for sustainability, specifically in Louisiana, is a vital skillset for students. Working towards an energy transition and sustainable sources of energy is the future of Louisiana workforce.



Pre-Engineering

Students demonstrate critical thinking and problem-solving skills by utilizing the engineering design process. Engaging with real-world design challenges encourages students to collaborate and think creatively about their environment.



Pre-Healthcare & Pre-Veterinary

From design and data analysis to clinical best-practices, students explore the vast range of careers in different biomedical fields like healthcare and veterinary medicine. They develop not just technical skills, but also in-demand, skills specific to industry.

