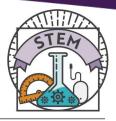# Louisiana STEM Pathways

What are the STEM Pathways?

Louisiana's STEM Pathways are specialized sequences of eight courses that emphasize connections across the individual STEM disciplines alongside "employability skills" such as problem solving, communication, collaboration, research and project planning. Students who graduate with a STEM diploma endorsement have successfully completed a STEM Pathway leading to industry credentials and/or college credits.

COMPUTING & CYBERSECURITY   **DIGITAL DESIGN & EMERGENT MEDIA**   **ENVIRONMENTAL PROTECTION & SUSTAINABILITY**   **PRE-ENGINEERING**   **PRE-HEALTHCARE & PRE-VETERINARY**

1. **Partner.** Schools partner with one or more of our pathway providers. Providers bring knowledge, curriculum, teacher training, and implementation support. Schools bring eager students, exceptional teachers, and effective leaders.

2. **Train.** Teachers attend intensive, high-quality training. Teachers learn to effectively teach pathway courses and may earn certificates or graduate credit.

3. **Learn.** Students take 4–8 rigorous pathway courses. Content includes pathway-specific hard skills, universal soft skills, and workplace-based experiences.

4. **Succeed.** Completers leave with a head start on college and/or their career, typically with industry-based credentials, college credits, employability skills, and workplace experience.

In the News

- Designing and Implementing Micro-Credentials to Support STEM Teaching
- Using Micro-credentials to Improve Teacher Skills in Computer Science
- Louisiana awarded $4K Gulf Coast Research Grant for Aquaponics in grades 6-8
- Program Helps Students Build STEM Skills

What's Next for Louisiana STEM Pathways

- Innovation in teacher certification for the STEM Pathways
- Expanding planning guidance for systems to support high-quality STEM programming
- Broadening STEM opportunities and access for all students statewide
- Growing STEM internship opportunities statewide that offer high school to career connections