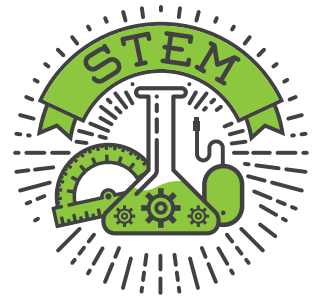


# STEM PATHWAY BRIEF

## DIGITAL DESIGN AND EMERGENT MEDIA



### OVERVIEW

The Digital Design & Emergent Media Certification Pathway is designed with a 21st century approach to media production – developing the skills and creativity for producing digital media from assets through final presentation. The pathway incorporates the STEM disciplines to address the constantly transforming field of digital media by enabling: digital storytelling – no matter the media; production skills training and certification in a variety of media types; programming experience specializing in web and digital media; and engagement in emergent media practice culminating in group based projects, exhibition/performance, and portfolio development.

College Ready	Career Ready	
<ul style="list-style-type: none"> <li>• Architecture</li> <li>• Artificial Intelligence</li> <li>• Communication Studies</li> <li>• Computer Engineering</li> <li>• Computer Science</li> <li>• Digital Art</li> <li>• Engineering</li> <li>• Experimental Music</li> <li>• Graphic Design</li> <li>• Information Systems &amp; Decision Science</li> <li>• Interior Design</li> <li>• Landscape Design</li> <li>• Management Information Systems</li> <li>• Mass Communications</li> <li>• Music Recording &amp; Engineering</li> <li>• Software Engineering</li> <li>• Web Design</li> </ul>	<ul style="list-style-type: none"> <li>• Animation Apprenticeship</li> <li>• Animation Industry Production Assistant</li> <li>• Art Department Assistant</li> <li>• Computer and Information Systems Assistant</li> <li>• Computer Support Specialists</li> <li>• Computer User Support Specialists</li> <li>• Creative Technologist</li> <li>• Digital Fabrication Assistant</li> <li>• Digital Media Generalist</li> <li>• Film Industry                             <ul style="list-style-type: none"> <li>• Gaffer</li> <li>• Grip</li> <li>• Best Boy</li> <li>• Production Runner</li> <li>• Production Assistant</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Graphic Design Production Assistant</li> <li>• IT/Computer Sales</li> <li>• Junior Artist</li> <li>• Junior Computer Programmer</li> <li>• Junior Web Designer</li> <li>• Live Sound Operator</li> <li>• Online Community Manager</li> <li>• Quality Assurance Tester</li> <li>• Radio Production</li> <li>• Recording Assistant</li> <li>• Stagehand</li> <li>• Storyboard Assistant</li> <li>• VFX Production Assistant</li> <li>• 3D Generalist</li> </ul>

### CREDENTIALS INCLUDED

Adobe Photoshop, Adobe Premier, CIW IBA, CIW SDA, CIW NTA, CIW Web Foundations

### STEM DIPLOMA SEALS

#### GOLD SEAL

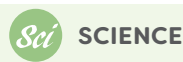
Students who successfully complete the four required courses and four courses from the Additional Course list will earn a Gold STEM Diploma Seal.

#### SILVER SEAL

Students who successfully complete the four required courses will earn a Silver STEM Diploma Seal.

# STEM PATHWAY

CORE COURSES:



Required Courses (4)			
Course Title	Course Code	Carnegie Credits	5-Point Scale
Digital Story Telling (LSU Partnership)	040241	1	
Programming for Digital Media (LSU Partnership)	040243	1	
Coding for the Web (LSU Partnership)	040244	1	
Intro to Computational Thinking for STEM (LSU Partnership)	061140	1	
Additional Courses (choose 4)			
Course Title	Course Code(s)	Carnegie Credits	5-Point Scale
Interactive Digital Media Capstone (LSU Partnership)	040245	1	
Sound Design (LSU Partnership)	080020	1	
Digital Image and Motion Graphics (LSU Partnership)	080021	1	
Data Manipulation and Analysis (LSU Partnership)	080532	1	
Programming for Engineers (LSU Partnership)	144300	1	
Film and TV (LSU Partnership)	080024	1	
Basic/Advanced Film (LSU Partnership)	080023	1	
Video Game Design (LSU Partnership)	080022	1	
AP Calculus AB <b>OR</b> Calculus: DE CMAT 2113-5 Calculus 1	160327 160328	1 1	✓ ✓
AP Calculus BC <b>OR</b> Calculus: DE CMAT 2125-5 Calculus 2	160328 160506	1 1	✓ ✓
Statistical Reasoning* <b>OR</b> AP Statistics	165031 160352		
AP Computer Science Principles	061177	1	
AP Computer Science A	061175	1	✓
Biology I/II DE CBIO 1033 General Biology I (Sci Majors)	150322/150324	1	✓
Biology II: DE CBIO 1043 General Biology II (Sci Majors)	150326	1	✓
Chemistry I/II: DE CCEM 1123 General Chemistry I (Sci Majors)	150415/150420	1	✓
Chemistry II: DE CCEM 1133 General Chemistry II (Sci Majors)	150422	1	✓
Physics 1: CPHY 2113 Physics I (Algebra/Trig Based) <b>OR</b> Physics 1 CPHY 2133 Physics 1 (mech) (Calculus Based)	150726 150728	1 1	✓ ✓
Photography I	312400	1	
Photography II	312405	1	
AP Art 3D	030508	1	✓
Motion Graphics	080816	1	
For Jump Start Tops Tech Diploma: Required Career Readiness Courses (1)			
Course Title	Course Code(s)	Carnegie Credits	5-Point Scale
Intro to STEM Pathways and Careers: LSU Partnership	061139	1	
Quest for Success	080411	1	
Agriscience I	010301	1	
Jobs for America's Graduates I	042010	1	
General Technology Education (Introduction to Skilled Crafts)	110010	1	
Introduction to Health Occupations	090029 <b>OR</b> 090930	1	

\*Course counts on a 4-point scale

For full Pathway information, visit the [JumpStart graduation pathway page](#).

## UNIVERSAL DOCUMENTS

[CDF ELIGIBLE COURSES](#) • [JUMP START FUNDING](#) • [UNIVERSAL COURSE CODES](#)