JUMP START! 2.0 Pathway Brief

INFORMATION TECHNOLOGY

For incoming freshmen 2020–2021

INFORMATION TECHNOLOGY

OVERVIEW

The Information Technology Jump Start 2.0 Pathway prepares students for the design, development, installation, implementation, and maintenance of computer systems, software, hardware, networks, and cloud computing. Pathway coursework equips students with the knowledge of software development life cycles (SDLC), computer operating systems, programming languages, and software development. Pathway coursework also equips students to perform IT services such as implementation of computer systems and software, provision of technical assistance, develop and read technical design documents, management of information systems, and the system testing process Students will work with cutting-edge technology to develop tomorrow's products for use by business and consumers.

COLLEGE AND CAREER CONNECTIONS

Finding high-wage career opportunities directly out of high school can be challenging. It typically requires advanced capstone credentials accompanied by work experience and/or apprenticeships in the field.

High School to Career	Community/Technical College to Career	University to Career
Software Tester	Computer Programmer	Software Engineer
Data Entry Specialist	Data Visualization Specialist	Data Analyst
Cyber Vulnerability Tester	Cyber Security Specialist	Cyber Security Analyst
Robotic Systems Tester	Robotics Process Specialist	Robotic Simulation Engineer

CAPSTONE CREDENTIALS

In order to graduate, Jump Start students must earn at least one credential from the options below.

Regional (Emerging)	Basic	Advanced
Career and Technical Certificate (LCTCS)*	Certificate of Technical Studies (LCTCS)*	Technical Diploma (LCTCS)*
Amazon Web Service Cloud Practitioner	App Development with Swift Level 1	Adobe Certified Expert Dreamweaver
Microsoft Certified Solutions Associate (MCSA)	**Adobe Certified Associate:** • After Effects • Animate • Dreamweaver • Illustrator • InDesign • Photoshop • Premier Pro	**Adobe Certified Professional:** • Visual Design • Video Design • Web Design
Microsoft Office Specialist: • Access • Word, PowerPoint AND Excel	Amazon Web Services Certified Cloud Practitioner	Amazon Web Services Foundational
Microsoft Technology Associate (MTA)	**C-Tech Associates:** • Smart Home Professional • Network Cabling Specialist	C-Tech Associates Broadband Professional
RobotC	**CIW:** • Internet Business Associate • Site Development Associate • Network Technology Associate • E-Commerce Specialist • Web Design Specialist • JavaScript Specialist 2.0 • Database Design Specialist • Perl Specialist • Web Security Associate • Web Security Specialist	**CIW:** • Web Foundations Associate • Web Design Professional • Web Development Professional • Web Security Professional
	CompTIA: IT Fundamentals +	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2
	Geographic Information System - Entry Level Technician Certification	**CompTIA:** • Network+ • A+ • Security+
	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1	Oracle Certified Professional (OCP) Java Programmer II
	Oracle Database PL/SQL Developer Certified Associate	
	Oracle Certified Professional (OCP) Java Programmer I	
	PYTHON Certification	

**Aligned to pathway.*

K16 PATHWAY ALIGNMENT

UNIVERSAL DOCUMENTS

CDF ELIGIBLE COURSES • JUMP START FUNDING • UNIVERSAL COURSE CODES

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Advanced Television Broadcasting I		080000	080002	080003
Advanced Television Broadcasting II		080005	080012	080013
Advanced JavaScript, Programming, and Web Development		080520	080526	
AP Computer Science A		061175		
AP Computer Science Principles		061177		
Audio Engineering	311314			
Basic Electricity/Electronics		110600		
Basic Technical Drafting		110560		
Broadcasting I		080014		
Broadcasting II		080015		
Broadcasting III		080016		
Broadcasting IV		080017		
CIW Database Design		080505		
CIW E-Commerce Site Design and Development		040519		
CIW Essentials of Web Design		040517		
CIW Internet Business		040405		
CIW Introduction to JavaScript		061125		
CIW Network Security		061121		
CIW Networking Technology		061120		
CIW Perl Fundamentals		061126		
CIW Website Development		040415		
Coding for the Web: LSU Partnership		040244		
Communication Technology		110540		
Comp TIA+ Fundamentals of Computer Installation and Configur		061130		
Comp TIA+ Networking Fundamentals		061122		
COMP TIA+ Programming with PL/SQL		061127		
COMP TIA+ Security		061138		
Computer Applications		061110		
Computer Architecture		061111		
Computer Electronics I		310800	310802	310803
Computer Electronics II		310805	310812	310813
Universal Course				
Computer Science II		061103		
Computer Service Technology I	310814	310818	310820	310821
Computer Service Technology II		310819	310822	310823
Computer Systems/Networking I		061112		
Computer Systems/Networking II		061136		
Computer Technology Literacy		040220		
Creative Coding Through Games and Apps		061133		
Cyber Literacy I (NICERC Partnership)		040221		
Cyber Literacy II (NICERC Partnership)		040222		
Cyber Literacy I		040213		
Cyber Literacy II		040215		
Cyber Science		040214		
Universal Course				
Data Manipulation and Analysis: LSU Partnership		080532		
Database Design and Programming		080501		
Databases Design	080840			

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Desktop Publishing		040207 OR 061114		
Digital Graphics and Animation		061115		
Digital Media I		080800	080802	080803
Digital Media II		080805	080812	080813
Digital Media III		080831	080832	080833
Digital Media IV		080834	080835	080836
Digital Storytelling: LSU Partnership		040241		
First Robotics I		150740		
First Robotics II		150750		
First Robotics III		150760		
First Robotics IV		150770		
Fundamentals of HTML, CSS, and JavaScript		080523		
GIS Entry Level 1		010103		
GIS Entry Level 2		010104		
Geometry		160323		
Graphic Arts I		311600	311602	311603
Graphic Arts II		311605	311612	311613
Graphic Arts III		311614	311615	311616
Graphic Arts IV		311617	311618	311619
Independent Study in Technology Applications I		061118	061119	
Independent Study in Technology Applications II		061123		
Interactive Computing (LSU Partnership)		061180		
Introduction to Computational Thinking for STEM:LSU Partnership		061140		
Introduction to Computational Thinking		061141		
Introduction to Engineering Design	110799	110800		
Introduction to Engineering Design (LSU Partnership)		110801		
Introduction to Programming	080860	080500		
Introduction to Remote Controlled Vehicle Technologies		110795		
Introduction to Social Media		080818		
Keyboarding	040225	040229		
Keyboarding Applications	040226			
Media Arts I		030810		
Media Arts II		030820		
Media Arts III		030830		
Media Arts IV		030840		
Multimedia Productions		061116		
Networking Basics			310850	310851
Operation Spark Partnership: Fundamentals of Video Game Programming		TBD		
Operation Spark Partnership: Internet of Things Programming		TBD		
Operation Spark: Professional Software Development		TBD		
Physics I		150000 OR 150700		
PLTW Digital Electronics		110821		
PLTW Introduction to Engineering Design		110802		
PLTW Principles of Engineering		080109		
Principles of Engineering		110810	110811	
Principles of Engineering: LSU Partnership		110864		

Course Name	½ Credit Course Code	1 Credit Course Code	2 Credit Course Code	3 Credit Course Code
Programming for Digital Media: LSU Partnership		040243		
Programming for Engineers (LSU Partnership)		144300		
Programming Logic and Design		080502		
Remote Controlled Vehicle Technologies		110796	110797	110798
Robotics (LSU Partnership)		150780		
Robotics Beginner		150723		
Robotics: Advanced		150730	150731	
Robotics: Intermediate		150729		
Software Design and Programming I		080503		
Software Design and Programming II		080504		
Survey of Computer Science (LSU Partnership)		061179		
Technology Education Elective I	110099	110199	110101	110102
Television Production I		312800	312802	312803
Television Production II		312805	312812	312813
Web Design I	040210	040211		
Web Design II	080830	040212		
Webmastering		061117		