INFORMATION TECHNOLOGY

For incoming freshmen beginning 2020–2021

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 knowledge of software development life cycles (SDLC), computer operating systems, programming languages, and software development. Pathway coursework also equips students to perform IT services, including the implementation of computer systems and software, the provision of technical assistance, the development and review of technical design documents, the management of information systems, and the system testing process. Students will work with cutting-edge technology to develop tomorrow's products for business and consumer use.

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

To graduate, Jump Start students must earn at least one credential from the list below. Some options may require more than one credential. These are noted with ‡ Credential codes and their Thrive Accelerator Index values can be found in the Industry-Based Certification Accelerator Matrix.

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

Aligned to the pathway.

UNIVERSAL DOCUMENTS

INDUSTRY-BASED CERTIFICATION ACCELERATOR MATRIX   FAST FORWARD FUNDING   UNIVERSAL COURSE CODES

Course Code	Credits Allowed	Credits Required	Course Name
080520	1	0.5	ADV JAVASCRIPT, PROGRAMMING, AND WEB DEVELOPMENT (1 CREDIT)
080526	2	2	ADV JAVASCRIPT, PROGRAMMING, AND WEB DEVELOPMENT (2 CREDITS)
080000	1	0.5	ADVANCED TELEVISION BROADCASTING I (1 CREDIT)
080002	2	2	ADVANCED TELEVISION BROADCASTING I (2 CREDITS)
080003	3	1.5	ADVANCED TELEVISION BROADCASTING I (3 CREDITS)
080005	1	0.5	ADVANCED TELEVISION BROADCASTING II (1 CREDIT)
080012	2	2	ADVANCED TELEVISION BROADCASTING II (2 CREDITS)
080013	3	1.5	ADVANCED TELEVISION BROADCASTING II (3 CREDITS)
061175	1	0.5	AP COMPUTER SCIENCE A
061177	1	0.5	AP Computer Science Principles
311314	0.5	0.5	AUDIO ENGINEERING
110600	1	0.5	BASIC ELECTRICITY/ELECTRONICS
110560	1	0.5	BASIC TECHNICAL DRAFTING
080014	1	0.5	Broadcasting I
080015	1	0.5	Broadcasting II
080016	1	0.5	Broadcasting III
080017	1	0.5	Broadcasting IV
080505	1	0.5	CIW Database Design
040519	1	0.5	CIW E-Commerce Site Design and Development
040517	1	0.5	CIW Essentials of Web Design
040405	1	0.5	CIW Internet Business
061125	1	0.5	CIW Introduction to JavaScript
061121	1	0.5	CIW Network Security
061120	1	0.5	CIW Networking Technology
061126	1	0.5	CIW Perl Fundamentals
040415	1	0.5	CIW Website Development
040244	1	0.5	Coding for the Web: LSU Partnership
110540	1	0.5	COMMUNICATION TECHNOLOGY
061130	1	0.5	COMP TIA+ Fundamentals of Computer Installation and Configur
061122	1	0.5	COMP TIA+ Networking Fundamentals
061127	1	0.5	COMP TIA+ Programming with PL/SQL
061138	1	0.5	COMP TIA+ Security
061110	1	0.5	COMPUTER APPLICATIONS
061111	1	0.5	COMPUTER ARCHITECTURE
310800	1	0.5	COMPUTER ELECTRONICS I (1 CREDIT)
310802	2	2	COMPUTER ELECTRONICS I (2 CREDITS)
310803	3	1.5	COMPUTER ELECTRONICS I (3 CREDITS)
310805	1	0.5	COMPUTER ELECTRONICS II (1 CREDIT)
310812	2	2	COMPUTER ELECTRONICS II (2 CREDITS)
310813		0.5	COMPUTER ELECTRONICS II (3 CREDITS)
061102	1	0.5	COMPUTER SCIENCE I
061103	1	0.5	COMPUTER SCIENCE II
310818	1	1	Computer Service Technology I
310814	0.5	0.5	COMPUTER SERVICE TECHNOLOGY I (1/2 CREDIT)
310820	2	2	COMPUTER SERVICE TECHNOLOGY I (2 CREDITS)
310821	3	1.5	COMPUTER SERVICE TECHNOLOGY I (3 CREDITS)
310819	1	0.5	Computer Service Technology II
310822	2	2	COMPUTER SERVICE TECHNOLOGY II (2 CREDITS)
310823	3	1.5	COMPUTER SERVICE TECHNOLOGY II (3 CREDITS)
061112	1	0.5	COMPUTER SYSTEMS/NETWORKING I
061136	1	0.5	COMPUTER SYSTEMS/NETWORKING II
040220	1	0.5	COMPUTER TECHNOLOGY LITERACY

061133	1	0.5	CREATIVE CODING THROUGH GAMES AND APPS
040221	1	0.5	Cyber Literacy (NICERC Partnership)
040213	1	0.5	Cyber Literacy I
040215	1	0.5	Cyber Literacy II
040222	1	0.5	Cyber Literacy II (NICERC Partnership)
040214	1	0.5	Cyber Science
040217	1	0.5	Cybersecurity (LSU Partnership)
080532	1	0.5	DATA MANIPULATION AND ANALYSIS (LSU PARTNERSHIP)
080501	1	0.5	DATABASE DESIGN AND PROGRAMMING (1 CREDIT)
080840	0.5	0.5	DATABASES DESIGN (1/2 CREDIT)
040207	1	0.5	DESKTOP PUBLISHING
061114	1	0.5	DESKTOP PUBLISHING
061115	1	0.5	DIGITAL GRAPHICS AND ANIMATION
080800	1	0.5	DIGITAL MEDIA I (1 CREDIT)
080802	2	2	DIGITAL MEDIA I (2 CREDITS)
080803	3	1.5	DIGITAL MEDIA I (3 CREDITS)
080805	1	0.5	DIGITAL MEDIA II (1 CREDIT)
080812	2	2	DIGITAL MEDIA II (2 CREDITS)
080813	3	1.5	DIGITAL MEDIA II (3 CREDITS)
080831	1	0.5	Digital Media III (1 Credit)
080832	2	2	Digital Media III (2 Credits)
080833	3	1.5	Digital Media III (3 Credits)
080834	1	0.5	Digital Media IV (1 Credit)
080835	2	2	Digital Media IV (2 Credits)
080836	3	1.5	Digital Media IV (3 Credits)
040241	1	0.5	Digital Story Telling: LSU Partnership
150740	1	0.5	FIRST ROBOTICS I (1 CREDIT)
150750	1	0.5	FIRST ROBOTICS II (1 CREDIT)
150760	1	0.5	FIRST ROBOTICS III (1 CREDIT)
150770	1	0.5	FIRST ROBOTICS IV (1 CREDIT)
080523	1	0.5	FUNDAMENTALS OF HTML, CSS, AND JAVASCRIPT (1 CREDIT)
160323	1	0.5	GEOMETRY
010103	1	0.5	GIS Entry Level 1
010104	1	0.5	GIS Entry Level 2
311600	1	0.5	GRAPHIC ARTS I (1 CREDIT)
311602	2	2	GRAPHIC ARTS I (2 CREDITS)
311603	3	1.5	GRAPHIC ARTS I (3 CREDITS)
311605	1	0.5	GRAPHIC ARTS II (1 CREDIT)
311612	2	2	GRAPHIC ARTS II (2 CREDITS)
311613	3	1.5	GRAPHIC ARTS II (3 CREDITS)
311614	1	0.5	Graphic Arts III (1 credit)
311615	2	2	Graphic Arts III (2 credits)
311616	3	1.5	Graphic Arts III (3 credits)
311617	1	0.5	Graphic Arts IV (1 credit)
311618	2	2	Graphic Arts IV (2 credits)
311619	3	1.5	Graphic Arts IV (3 credits)
061118	1	0.5	Independent Study in Technology Applications I 1 credit
061119	2	2	Independent Study in Technology Applications I (2 credit)
061123	1	0.5	Independent Study in Technology Applications II (1 credit)
061180	1	0.5	Interactive Computing (LSU Partnership)
061141	1	0.5	Intro to Computational Thinking
061140	1	0.5	INTRO TO COMPUTATIONAL THINKING FOR STEM (LSU PARTNERSHIP)
110800	1	1	INTRODUCTION TO ENGINEERING DESIGN (1 CREDIT)
110801	1	0.5	INTRODUCTION TO ENGINEERING DESIGN (LSU PARTNERSHIP)
110799	0.5	0.5	INTRODUCTION TO ENGINEERING DESIGN I (1/2 CREDIT)

080500	1	1	Introduction to Programming (1 Credit)
080860	0.5	0.5	INTRODUCTION TO PROGRAMMING (1/2 CREDIT)
110795	1	0.5	Introduction to Remote Controlled Vehicle Technologies
080818	1	0.5	Introduction to Social Media
040229	1	1	Keyboarding
040225	0.5	0.5	KEYBOARDING (1/2 CREDIT)
040226	0.5	0.5	KEYBOARDING APPLICATIONS (1/2 CREDIT)
030810	1	0.5	MEDIA ARTS I
030820	1	0.5	MEDIA ARTS II
030830	1	0.5	MEDIA ARTS III
030840	1	0.5	MEDIA ARTS IV
061116	1	0.5	MULTIMEDIA PRODUCTIONS
310850	2	2	NETWORKING BASICS (2 CREDITS)
310851	3	1.5	NETWORKING BASICS (3 CREDITS)
080026	1	0.5	Operation Spark Partnership: Fundamentals of Video Game Programming
080027	1	0.5	Operation Spark Partnership: Internet of Things Programming
080028	1	0.5	Operation Spark Partnership: Professional Software Development
150000	1	0.5	Physics I
150700	1	0.5	PHYSICS I
061100	1	0.5	PLTW Computer Science Essentials
110821	1	0.5	PLTW Digital Electronics
110802	1	0.5	PLTW Introduction to Engineering Design
080109	1	0.5	PLTW Principles of Engineering
110810	1	0.5	PRINCIPLES OF ENGINEERING (1 CREDIT)
110811	2	2	PRINCIPLES OF ENGINEERING (2 CREDITS)
110864	1	0.5	PRINCIPLES OF ENGINEERING (LSU PARTNERSHIP)
040243	1	0.5	Programming for Digital Media: LSU Partnership
144300	1	0.5	PROGRAMMING FOR ENGINEERS (LSU PARTNERSHIP)
080502	1	0.5	Programming Logic and Design
110796	1	0.5	Remote Controlled Vehicle Technologies (1 credit)
110797	2	2	Remote Controlled Vehicle Technologies (2 credits)
110798	3	1.5	Remote Controlled Vehicle Technologies (3 credits)
150780	1	0.5	ROBOTICS (LSU PARTNERSHIP)
150730	1	0.5	ROBOTICS: ADVANCED (1 CREDIT)
150731	2	2	ROBOTICS: ADVANCED (2 CREDITS)
150723	1	0.5	ROBOTICS: BEGINNER (1 CREDIT)
150729	1	0.5	ROBOTICS: INTERMEDIATE (1 CREDIT)
080503	1	0.5	Software Design and Programming I
080504	1	0.5	Software Design and Programming II
061179	1	0.5	Survey of Computer Science (LSU Partnership)
110199	1	1	TECHNOLOGY EDUCATION ELECTIVE I (1 CREDIT)
110099	0.5	0.5	TECHNOLOGY EDUCATION ELECTIVE I (1/2 CREDIT)
110101	2	2	TECHNOLOGY EDUCATION ELECTIVE I (2 CREDITS)
110102	3	1.5	TECHNOLOGY EDUCATION ELECTIVE I (3 CREDITS)
312800	1	0.5	TELEVISION PRODUCTION I (1 CREDIT)
312802	2	2	TELEVISION PRODUCTION I (2 CREDITS)
312803	3	1.5	TELEVISION PRODUCTION I (3 CREDITS)
312805	1	0.5	TELEVISION PRODUCTION II (1 CREDIT)
312812	2	2	TELEVISION PRODUCTION II (2 CREDITS)
312813	3	1.5	TELEVISION PRODUCTION II (3 CREDITS)
040211	1	1	WEB DESIGN (1 CREDIT)
040210	0.5	0.5	WEB DESIGN (1/2 CREDIT)
080830	0.5	0.5	WEB DESIGN (1/2 CREDIT)
040212	1	0.5	WEB DESIGN II (1 CREDIT)
061117	1	0.5	WEBMASTERING