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 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)*
Microsoft Certified Solutions Associate (MCSA)	App Development with Swift Associate	App Development with Swift Certified User
Microsoft Office Specialist: · Access · Word, PowerPoint AND Excel	**Adobe Certified Associate:** · After Effects · Animate · Dreamweaver · Illustrator · InDesign · Photoshop · Premiere Pro	Adobe Certified Expert Dreamweaver
Microsoft Technology Associate (MTA)	**C-Tech Associates:** · Smart Home Professional · Network Cabling Specialist	**Adobe Certified Professional:** · Visual Design · Video Design · Web Design
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	**Amazon Web Services:** · Cloud Practitioner Foundational · Associate
		C-Tech Associates Broadband Professional
	CompTIA: IT Fundamentals +	**CIW:** · Web Foundations Associate · Web Design Professional · Web Development Professional · Web Security Professional
	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 1	**CompTIA:** · Network+ · A+ · Security+
	Geographic Information System - Entry Level Technician Certification	Fundamentals of JavaScript, Functional Programming and Web Development, Lvl 2
	Microsoft Office Specialist consisting of Word Expert, Excel Expert AND Access Expert	Oracle Certified Professional (OCP) Java Programmer II
	Oracle Database PL/SQL Developer Certified Associate Unity Certified Associate	
	Oracle Certified Professional (OCP) Java Programmer I	
	PYTHON Certification	
	Unity Certified User	

*Aligned to pathway.

UNIVERSAL DOCUMENTS

CDF ELIGIBLE COURSES   JUMP START FUNDING   UNIVERSAL COURSE CODES

Course Code	Credits Allowed	Credits Required	Course Name	Actions
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)	Added 2020-2021
061102	1	0.5	COMPUTER SCIENCE I	Remove 2023 - Universal Course List
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	

Course Code	Credits Allowed	Credits Required	Course Name	Actions
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)	

Course Code	Credits Allowed	Credits Required	Course Name	Actions
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 Programmi	Added 2022-2023
080027	1	0.5	Operation Spark Partnership: Internet of Things Programming	Added 2022-2023
080028	1	0.5	Operation Spark Partnership: Professional Software Development	Added 2022-2023
150000	1	0.5	Physics I	
150700	1	0.5	PHYSICS I	
061100	1	0.5	PLTW Computer Science Essentials	Added 2023-2024
110821	1	0.5	PLTW Digital Electronics	Added 2020-2021
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)	

Course Code	Credits Allowed	Credits Required	Course Name	Actions
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	