

# Cyber Engineering

<b>Statewide Pathway</b>	<p>The Cyber Engineering graduation pathway is a Statewide pathway. Students must:</p> <ol style="list-style-type: none"> <li>1) pass 9 Carnegie credits of courses from this pathway;</li> <li>2) including at least one Career Readiness course (one Carnegie credit); and</li> <li>3) attain one statewide credential (or the LCTCS equivalent certificate / diploma).</li> </ol>
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High-Demand Careers Related to this Pathway	<p>5 Stars: Computer Systems Manager, Computer Programmer, Computer and Information Systems Manager, Computer Systems Analyst, Computer User Support Specialist, Network and Computer Systems Administrator, Sales Representative – Technical and Scientific Products, Software Developer</p> <p>4 Stars: Computer Network Architect, Computer Network Support Specialist, Electro-Mechanical Technician, Computer-Controlled Machine Tool Operator – Metal and Plastic, Information Security Analyst, Web Developer</p>
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Starting Salary Ranges for this Pathway	\$16,000 - \$53,000
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## Cyber Engineering Graduation Pathway: Sections

1	<b>Pathway-Specific Courses</b>	<p>This section lists the course titles and codes for courses specific to this pathway</p> <hr style="border-top: 1px dashed black;"/> <p>Each table also indicates those courses that qualify for the basic 6% CTE adder (<i>course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses</i>) as well as those courses that qualify for the additional 6% Career Development Fund (or CDF) payment.</p>
2	<b>Universal Jump Start Courses</b>	This section lists the course titles and course codes for courses that are part of every Jump Start graduation pathway
3	<b>Career Readiness Courses</b>	This section lists the course titles and codes for courses that qualify as Career Readiness Courses. Students must pass at least one Carnegie credit of Career Readiness courses, but may apply more than one Career Readiness course to their 9 credit Jump Start graduation requirement.
4	<b>Internships</b>	This section indicates the three types of internships and the appropriate course codes.
5	<b>Culminating Credentials</b>	This section indicates the required culminating credential(s) for this pathway.
6	<b>Sample Schedule</b>	This section provides a sample schedule for students pursuing this graduation pathway. Each high school will develop its own standard schedules for Jump Start students.

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<b>Jump Start Graduation Pathway Revision Policy</b>
<p>Jump Start graduation pathways are continuously updated. Please use the most updated graduation pathways.</p> <p><b>Future changes to Jump Start graduation pathways will always <u>increase</u> student opportunities. <i>No one will ever need to compare an old pathway with an updated pathway.</i></b></p> <p><b>Please send any recommended graduation pathway changes to <a href="mailto:JumpStart@la.gov">JumpStart@la.gov</a> using the subject line: <i>Recommended Graduation Pathway Change.</i></b></p> <p>The Department reserves the right to make administrative updates to Jump Start graduation pathways, including but not limited to updating course codes, correcting errors on course codes, correcting spelling errors and other similar changes.</p> <p>The Department reserves the right to delete courses no longer meeting state standards. When this occurs, the Department may add a section to the graduation pathway indicating: “Courses Deleted from this Graduation Pathway.”</p> <p>The Department reserves the right to make changes on credentialing requirements based on guidance provided by the Jump Start Graduation Pathways Review Panel. (Please see the <i>All Things Jump Start</i> web portal for information about this Panel.) The Department will also maintain contact with certifying agencies and the Workforce Investment Council (WIC) to update the Statewide, Core and Complementary credentials indicated in each graduation pathway.</p> <p><b><i>Louisiana educators can seek assistance with Jump Start graduation pathways at any time by emailing their questions to <a href="mailto:JumpStart@la.gov">JumpStart@la.gov</a></i></b></p>

<b>Help Resources</b>
<p>Please see the updated <i>All Things Jump Start</i> web portal: <a href="http://www.louisianabelieves.com/courses/all-things-jump-start/">http://www.louisianabelieves.com/courses/all-things-jump-start/</a> The updated portal provides easier access to:</p> <ul style="list-style-type: none"> <li>• updated Jump Start graduation pathways;</li> <li>• updated industry credential fact sheets that provide comprehensive details on over 100 Jump Start industry credentials;</li> <li>• guidance on how your school can implement workplace internships and virtual workplace experiences; <i>and much, much more.</i></li> </ul>

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<b>Pathway-Specific Courses: Cyber Engineering</b>				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
AGRISCIENCE I	010301	1	✓	
Career Readiness Agriscience Agribusiness Natural Resources	010331	1	✓	
AGRISCIENCE-LEADERSHIP DEVELOPMENT (1/2 CREDIT)	010354	1/2	✓	
AG LEADERSHIP (1 CREDIT)	010364	1	✓	
NCCER ELECTRICAL IN AGRISCIENCE (1 CREDIT)	010701	1	✓	✓
NCCER ELECTRICAL IN AGRISCIENCE (2 CREDITS)	010702	2	✓	✓
NCCER ELECTRICAL IN AGRISCIENCE (3 CREDITS)	010703	3	✓	✓
NCCER Electrical in Agriscience II (1CR)	010704	1	✓	✓
NCCER Electrical in Agriscience II (2CR)	010705	2	✓	✓
NCCER Electrical in Agriscience II (3CR)	010706	3	✓	✓
NCCER Electrical in Agriscience III (1CR)	010707	1	✓	✓
NCCER Electrical in Agriscience III (2CR)	010708	2	✓	✓
NCCER Electrical in Agriscience III (3CR)	010709	3	✓	✓
NCCER Electrical in Agriscience IV (1 CR)	010710	1	✓	✓
NCCER Electrical in Agriscience IV (2 CR)	010711	2	✓	✓
NCCER Electrical in Agriscience IV (3 CR)	010712	3	✓	✓
Introduction to Manufacturing C4M in Agriscience I (1 Credit)	010913	1	✓	✓
Introduction to Manufacturing C4M in Agriscience I (2 Credits)	010914	2	✓	✓
Introduction to Manufacturing C4M in Agriscience I (3 Credits)	010915	3	✓	✓
Manufacturing Tools and Equipment C4M in Agriscience (1 Credit)	010916	1	✓	✓

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Manufacturing Tools and Equipment C4M in Agriscience (2 Credits)	010917	2	✓	✓
Manufacturing Tools and Equipment C4M in Agriscience (3 Credits)	010918	3	✓	✓
Automation in Manufacturing C4M in Agriscience (1 Credit)	010919	1	✓	✓
Automation in Manufacturing C4M in Agriscience (2 Credits)	010920	2	✓	✓
Automation in Manufacturing C4M in Agriscience (3 Credits)	010921	3	✓	✓
Introduction to Fabrication, P-Tech, and Machining C4M in Agriscience (1 Credit)	010922	1	✓	✓
Introduction to Fabrication, P-Tech, and Machining C4M in Agriscience (2 Credits)	010923	2	✓	✓
Introduction to Fabrication, P-Tech, and Machining C4M in Agriscience (3 Credits)	010924	3	✓	✓
Fundamentals of Machining C4Machining in Agriscience (1 Credit)	010925	1	✓	✓
Fundamentals of Machining C4Machining in Agriscience (2 Credits)	010926	2	✓	✓
Fundamentals of Machining C4Machining in Agriscience (3 Credits)	010927	3	✓	✓
Machining Tools and Equipment C4Machining in Agriscience (1 Credit)	010928	1	✓	✓
Machining Tools and Equipment C4Machining in Agriscience (2 Credits)	010929	2	✓	✓
Machining Tools and Equipment C4Machining in Agriscience (3 Credits)	010930	3	✓	✓
Manual Machining C4Machining in Agriscience (1 Credit)	010931	1	✓	✓
Manual Machining C4Machining in Agriscience (2 Credits)	010932	2	✓	✓
Manual Machining C4Machining in Agriscience (3 Credits)	010933	3	✓	✓
Computerized Numerical Control (CNC) Machining C4Machining in Agriscience (1 cr)	010934	1	✓	✓
Computerized Numerical Control (CNC) Machining C4Machining in Agriscience (2 cr)	010935	2	✓	✓

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Computerized Numerical Control (CNC) Machining C4Machining in Agriscience (3 cr)	010936	3	✓	✓
MUSIC AND MEDIA	030318	1		
MUSIC AND TECHNOLOGY	030319	1		
ART I	030501	1		
ART II	030502	1		
AP STUDIO ART 3-D DESIGN	030508	1		
Studio Art Design: AP Studio Art 2D Design	030509	1		
AP Studio Art : Drawing	030510	1		
IB Art Design III	030511	1		
Studio Art Design: Gifted and Talented Visual Arts I	030514	1		
Studio Art Design: Gifted and Talented Visual Arts II	030515	1		
Studio Art Design: Gifted and Talented Visual Arts III	030516	1		
Studio Art Design: Gifted and Talented Visual Arts IV	030517	1		
THEATRE I	030700	1		
TECHNICAL THEATRE	030701	1		
THEATRE DESIGN AND TECHNOLOGY	030702	1		
THEATRE ELECTIVE I	030703	1		
THEATRE ELECTIVE II	030704	1		
THEATRE ELECTIVE III	030705	1		
Theatre: Gifted and Talented Introduction to Film Studies	030709	1		
Theatre: Gifted and Talented Theatre I	030710	1		
Theatre: Gifted and Talented Theatre II	030711	1		

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Theatre: Gifted and Talented Theatre III	030712	1		
Theatre: Gifted and Talented Theatre IV	030713	1		
Theatre: DE - CTHE 2103 Acting I	030715	1		
Theatre: DE - CTHE 2113 Acting II	030716	1		
Theatre: DE - CTHE 1013 Introduction to Theatre	030717	1		
MEDIA ARTS I	030810	1		
MEDIA ARTS II	030820	1		
MEDIA ARTS III	030830	1		
MEDIA ARTS IV	030840	1		
ACCOUNTING I	040101	1	✓	✓
ACCOUNTING II	040104	1	✓	✓
COMPUTER MULTIMEDIA PRESENTATIONS (1 CREDIT)	040106	1	✓	
ENTREPRENEURSHIP (BUSINESS)	040110	1	✓	
WORD PROCESSING	040203	1	✓	
COOPERATIVE OFFICE EDUCATION (3 CREDITS)	040205	3	✓	
DESKTOP PUBLISHING	040207	1	✓	
WEB DESIGN (1/2 CREDIT)	040210	1/2	✓	
WEB DESIGN (1 CREDIT)	040211	1	✓	
WEB DESIGN II (1 CREDIT)	040212	1	✓	
Cyber Literacy I	040213	1	✓	
Cyber Science	040214	1	✓	
Cyber Literacy II	040215	1	✓	

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Cyber Society	040216	1	✓	
COMPUTER TECHNOLOGY LITERACY	040220	1	✓	
KEYBOARDING (1/2 CREDIT)	040225	1/2	✓	
KEYBOARDING APPLICATIONS (1/2 CREDIT)	040226	1/2	✓	
Keyboarding	040229	1	✓	
BUSINESS LAW	040303	1	✓	
BUSINESS COMMUNICATIONS	040305	1	✓	
PRINCIPLES OF BUSINESS	040306	1	✓	
Business Math	040307	1	✓	
BUSINESS COMPUTER APPLICATIONS	040400	1	✓	
INTRODUCTION TO BUSINESS COMPUTER APPLICATIONS	040401	1	✓	
CIW Internet Business	040405	1	✓	✓
CIW Website Development	040415	1	✓	✓
CIW Essentials of Web Design	040517	1	✓	✓
CIW E-Commerce Site Design and Development	040519	1	✓	✓
CUSTOMER SERVICE (1 CREDIT)	041001	1	✓	
COOPERATIVE MARKETING EDUCATION I (3 CREDITS)	041010	3	✓	
COOPERATIVE MARKETING EDUCATION II (3 CREDITS)	041011	3	✓	
PERSONAL FINANCE	041022	1	✓	
PRINCIPLES OF MARKETING I	041025	1	✓	
PRINCIPLES OF MARKETING II	041026	1	✓	
ENTREPRENEURSHIP (MARKETING)	041040	1	✓	

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ENTREPRENEURSHIP II - Advanced Micro-Enterprise Credentials	041041	1	✓	✓
JOBS FOR AMERICA'S GRADUATES 1	042010	1	✓	✓
JOBS FOR AMERICA'S GRADUATES 2	042020	1	✓	✓
JOBS FOR AMERICA'S GRADUATES 3	042030	1	✓	✓
JOBS FOR AMERICA'S GRADUATES 4	042040	1	✓	✓
PUBLICATIONS I (YEARBOOK)	050603	1		
PUBLICATIONS II (YEARBOOK)	050604	1		
SPEECH I	051101	1		
SPEECH II	051102	1		
COMPUTER SCIENCE I	061102	1	✓	
COMPUTER SCIENCE II	061103	1	✓	
COMPUTER APPLICATIONS	061110	1	✓	
COMPUTER ARCHITECTURE	061111	1	✓	
COMPUTER SYSTEMS/NETWORKING I	061112	1	✓	
DESKTOP PUBLISHING	061114	1	✓	
DIGITAL GRAPHICS AND ANIMATION	061115	1	✓	
MULTIMEDIA PRODUCTIONS	061116	1	✓	
WEBMASTERING	061117	1	✓	
Independent Study in Technology Applications I 1 credit	061118	1	✓	
Independent Study in Technology Applications I (2 credit)	061119	2	✓	
CIW Networking Technology	061120	1	✓	
CIW Network Security	061121	1	✓	✓



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COMP TIA+ Networking Fundamentals	061122	1	✓	✓
Independent Study in Technology Applications II (1 credit)	061123	1	✓	
Independent Study in Technology Applications II (2 credit)	061124	2	✓	
CIW Introduction to JavaScript	061125	1	✓	✓
CIW Perl Fundamentals	061126	1	✓	✓
COMP TIA+ Programming with PL/SQL	061127	1	✓	✓
COMP TIA+ Fundamentals of Computer Installation and Configur	061130	1	✓	✓
Game Programming Foundation I	061131	1	✓	
3D Animation Foundations I	061132	1	✓	
Creative Coding Through Games and Apps	061133	1	✓	
COMPUTER SYSTEMS/NETWORKING II	061136	1	✓	
AP COMPUTER SCIENCE A	061175	1	✓	✓
AP COMPUTER SCIENCE AB	061176	1		
AP Computer Science Principles	061177	1	✓	✓
COMPUTER ELECTIVE IV - LOCALLY-INITIATED COMPUTER ELECTIVE	061196	1	✓	
COMPUTER ELECTIVE III - LOCALLY-INITIATED COMPUTER ELECT	061197	1	✓	
COMPUTER ELECTIVE II - LOCALLY-INITIATED COMPUTER ELECTIVE	061198	1	✓	
COMPUTER SCIENCE ELECTIVE	061199	1	✓	
ADVANCED TELEVISION BROADCASTING I (1 CREDIT)	080000	1	✓	
ADVANCED TELEVISION BROADCASTING I (2 CREDITS)	080002	2	✓	
ADVANCED TELEVISION BROADCASTING I (3 CREDITS)	080003	3	✓	
ADVANCED TELEVISION BROADCASTING II (1 CREDIT)	080005	1	✓	

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ADVANCED TELEVISION BROADCASTING II (2 CREDITS)	080012	2	✓	
ADVANCED TELEVISION BROADCASTING II (3 CREDITS)	080013	3	✓	
Broadcasting I	080014	1	✓	
Broadcasting II	080015	1	✓	
Broadcasting III	080016	1	✓	
Broadcasting IV	080017	1	✓	
ENGINEERING DESIGN I (1 CREDIT)	080110	1	✓	
Engineering Design I (2 Credits)	080111	2	✓	
Engineering Design I (3 Credits)	080112	3	✓	
ENGINEERING DESIGN II (1 CREDIT)	080120	1	✓	
Engineering Design II (2 Credits)	080121	2	✓	
Engineering Design II (3 Credits)	080122	3	✓	
CDF-Qualifying CTE Internship I (2 CREDITS)	080200	2	✓	✓
CDF-Qualifying CTE Internship II (2 CREDITS)	080201	2	✓	✓
CDF-Qualifying CTE Internship I (1 CREDIT)	080202	1	✓	✓
CDF-Qualifying CTE Internship II (1 CREDIT)	080203	1	✓	✓
Virtual Workplace Experience I (1/2 credit)	080204	1/2	✓	
Virtual Workplace Experience I (1 credit)	080205	1	✓	
Virtual Workplace Experience II (1/2 credit)	080206	1/2	✓	
Virtual Workplace Experience II (1 credit)	080207	1	✓	
Pre-Apprenticeship I (2 Credits)	080208	2	✓	
Pre-Apprenticeship II (2 Credits)	080209	2	✓	

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Pre-Apprenticeship I (1 Credit)	080210	1	✓	
Pre-Apprenticeship II (1 Credit)	080211	1	✓	
Authentic Workplace Experience I (1 Credit)	080212	1	✓	
GENERAL COOPERATIVE EDUCATION I (3 CREDITS)	080300	3	✓	
GENERAL COOPERATIVE EDUCATION II (3 CREDITS)	080301	3	✓	
EDUCATION FOR CAREERS (1/2 CREDIT)	080400	1/2	✓	
EDUCATION FOR CAREERS (1CREDIT)	080401	1	✓	
JOURNEY TO CAREERS PART I (1/2 CREDIT)	080402	1/2	✓	
JOURNEY TO CAREERS (1 CREDIT)	080403	1	✓	
JOURNEY TO CAREERS PART II (1/2 CREDIT)	080404	1/2	✓	
EDUCATION FOR CAREERS PART I (1/2 CREDIT)	080405	1/2	✓	
EDUCATION FOR CAREERS PART II (1/2 CREDIT)	080406	1/2	✓	
Career Success Skills	080407	1	✓	
Basic/Initial Career Readiness	080409	1	✓	
Advanced Career Readiness	080410	1	✓	
Introduction to Programming (1 Credit)	080500	1	✓	
DATABASE DESIGN AND PROGRAMMING (1 CREDIT)	080501	1	✓	
CIW Database Design	080505	1	✓	✓
JAVA PROGRAMMING (1 CREDIT)	080521	1	✓	✓
FUNDAMENTALS OF HTML, CSS, AND JAVASCRIPT (1 CREDIT)	080523	1	✓	✓
ADV JAVASCRIPT, FUNCT PROGRAMMING, AND WEB DEV (2 CREDITS)	080526	2	✓	✓
DATABASE PROGRAMMING WITH PL/SQL TRAINING (1/2 CREDIT)	080531	1/2	✓	

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DATA MANIPULATION AND ANALYSIS: LSU PARTNERSHIP	080532	1	✓	✓
BUSINESS IN A GLOBAL ECONOMY (1/2 CREDIT)	080660	1/2	✓	
PRINCIPLES OF FINANCE (1/2 CREDIT)	080670	1/2	✓	
(NAF) ENTREPRENEURSHIP (1/2 CREDIT)	080685	1/2	✓	
MANAGERIAL ACCOUNTING (1/2 CREDIT)	080691	1/2	✓	
CUSTOMER SERVICE (1/2 CREDIT)	080720	1/2	✓	
DIGITAL MEDIA I (1 CREDIT)	080800	1	✓	
DIGITAL MEDIA I (2 CREDITS)	080802	2	✓	
DIGITAL MEDIA I (3 CREDITS)	080803	3	✓	
DIGITAL MEDIA II (1 CREDIT)	080805	1	✓	
PRINCIPLES OF INFORMATION TECHNOLOGY (1/2 CREDIT)	080810	1/2	✓	
Entertainment Technologies	080811	1	✓	
DIGITAL MEDIA II (2 CREDITS)	080812	2	✓	
DIGITAL MEDIA II (3 CREDITS)	080813	3	✓	
Interactive Media I	080814	1	✓	
Interactive Media II	080815	1	✓	
Motion Graphics	080816	1	✓	
Principles of Visual Design	080817	1	✓	
Introduction to Social Media	080818	1	✓	
COMPUTER NETWORKING (1/2 CREDIT)	080820	1/2	✓	
WEB DESIGN (1/2 CREDIT)	080830	1/2	✓	
Digital Media III (1 Credit)	080831	1	✓	

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Digital Media III (2 Credits)	080832	2	✓	
Digital Media III (3 Credits)	080833	3	✓	
Digital Media IV (1 Credit)	080834	1	✓	
Digital Media IV (2 Credits)	080835	2	✓	
Digital Media IV (3 Credits)	080836	3	✓	
DATABASES DESIGN (1/2 CREDIT)	080840	1/2	✓	
COMPUTER SYSTEMS (1/2 CREDIT)	080850	1/2	✓	
INTRODUCTION TO PROGRAMMING (1/2 CREDIT)	080860	1/2	✓	
DIGITAL VIDEO (1/2 CREDIT)	080870	1/2	✓	
ASSISTIVE TECHNOLOGY FOR THE VISUALLY IMPAIRED (1 CREDIT)	080900	1	✓	
BUSINESS ENTERPRISES FOR THE VISUALLY IMPAIRED (1 CREDIT)	080901	1	✓	
BRAILLE I (1 CREDIT)	080902	1	✓	
BRAILLE II (1 CREDIT)	080903	1	✓	
COOPERATIVE HEALTH OCCUPATIONS (3 CREDITS)	090004	3	✓	
FIRST RESPONDER / EMERGENCY MEDICAL RESPONDER (1/2 CREDIT)	090710	1/2	✓	
FIRST RESPONDER / EMERGENCY MEDICAL RESPONDER (1 CREDIT)	090711	1	✓	
FIRST RESPONDER / EMERGENCY MEDICAL RESPONDER (2 CREDITS)	090712	2	✓	
GENERAL TECHNOLOGY EDUCATION	110010	1	✓	
COOPERATIVE TECHNOLOGY EDUCATION (3 CREDITS)	110098	3	✓	
INTRODUCTION TO MANUFACTURING C4M	110256	1	✓	✓
MANUFACTURING TOOLS AND EQUIPMENT C4M (1 CREDIT)	110257	1	✓	✓
AUTOMATION IN MANUFACTURING C4M (1 CREDIT)	110258	1	✓	✓

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INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (1 CREDIT)	110259	1	✓	✓
INTRODUCTION TO MANUFACTURING C4M (2 CREDITS)	110260	2	✓	✓
INTRODUCTION TO MANUFACTURING C4M (3 CREDITS)	110261	3	✓	✓
MANUFACTURING TOOLS AND EQUIPMENT C4M (2 CREDITS)	110262	2	✓	✓
MANUFACTURING TOOLS AND EQUIPMENT C4M (3 CREDITS)	110263	3	✓	✓
AUTOMATION IN MANUFACTURING C4M (2 CREDITS)	110264	2	✓	✓
AUTOMATION IN MANUFACTURING C4M (3 CREDITS)	110265	3	✓	✓
INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (2 CREDITS)	110266	2	✓	✓
INTRODUCTION TO FABRICATION, P-TECH AND MACHINING C4M (3 CREDITS)	110267	3	✓	✓
FUNDAMENTALS OF MACHINING C4MACHINING (1 CREDIT)	110268	1	✓	✓
FUNDAMENTALS OF MACHINING C4MACHINING (2 CREDITS)	110269	2	✓	✓
FUNDAMENTALS OF MACHINING C4MACHINING (3 CREDITS)	110270	3	✓	✓
MACHINING TOOLS AND EQUIPMENT C4MACHINING (1 CREDIT)	110271	1	✓	✓
MACHINING TOOLS AND EQUIPMENT C4MACHINING (2 CREDITS)	110272	2	✓	✓
MACHINING TOOLS AND EQUIPMENT C4MACHINING (3 CREDITS)	110273	3	✓	✓
MANUAL MACHINING C4MACHINING (1 CREDIT)	110274	1	✓	✓
MANUAL MACHINING C4MACHINING (2 CREDITS)	110275	2	✓	✓
MANUAL MACHINING C4MACHINING (3 CREDITS)	110276	3	✓	✓
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING (1 CR)	110277	1	✓	✓
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING	110278	2	✓	✓

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(2 CR)				
COMPUTERIZED NUMERICAL CONTROL (CNC) MACHINING C4MACHINING (3 CR)	110279	3	✓	✓
CTE Internship I (1 credit; Non-CDF)	110402	1	✓	
CTE Internship I (2 credits; Non-CDF)	110403	2	✓	
CTE Internship II (1 credit; Non-CDF)	110404	1	✓	
CTE Internship II (2 credits; Non-CDF)	110405	2	✓	
COMMUNICATION TECHNOLOGY	110540	1	✓	
BASIC TECHNICAL DRAFTING	110560	1	✓	
CMAD Drafting	110570	1	✓	✓
CMAD Drafting (2 credit)	110571	2	✓	✓
CMAD Drafting (3 credit)	110572	3	✓	✓
ARCHITECTURAL DRAFTING	110580	1	✓	
ADVANCED TECHNICAL DRAFTING	110590	1	✓	
BASIC ELECTRICITY/ELECTRONICS	110600	1	✓	
ADVANCED ELECTRICITY/ELECTRONICS	110610	1	✓	
NCCER ELECTRICAL I (1 CREDIT)	110711	1	✓	✓
NCCER ELECTRICAL I (2 CREDITS)	110712	2	✓	✓
NCCER ELECTRICAL I (3 CREDITS)	110713	3	✓	✓
NCCER Carpentry IV (3 credits)	110714	3	✓	✓
NCCER ELECTRICAL II (1 CREDIT)	110716	1	✓	✓
NCCER ELECTRICAL II (2 CREDITS)	110717	2	✓	✓
NCCER ELECTRICAL II (3 CREDITS)	110718	3	✓	✓

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INTRODUCTION TO ENGINEERING DESIGN I (1/2 CREDIT)	110799	1/2	✓	
INTRODUCTION TO ENGINEERING DESIGN (1 CREDIT)	110800	1	✓	
PRINCIPLES OF ENGINEERING (1 CREDIT)	110810	1	✓	
PRINCIPLES OF ENGINEERING (2 CREDITS)	110811	2	✓	
DIGITAL ELECTRONICS (1 CREDIT)	110820	1	✓	
AEROSPACE ENGINEERING (1 CREDIT)	110830	1	✓	
CIVIL ENGINEERING & ARCHITECTURE (1 CREDIT)	110840	1	✓	
COMPUTER INTEGRATED MANUFACTURING (1 CREDIT)	110850	1	✓	
ENGINEERING DESIGN AND DEVELOPMENT (1 CREDIT)	110860	1	✓	
TECHNICAL WRITING	120350	1		
AMERICAN SIGN LANGUAGE I	123456	1		
AMERICAN SIGN LANGUAGE II	123457	1		
TECHNICAL READING and WRITING	125010	1		
BUSINESS COMMUNICATIONS	125030	1		
Computer Engineering, General	140901	1		
Physics I	150000	1		
CHEMISTRY	150401	1		
PHYSICS	150700	1		
PHYSICS II	150701	1		
Robotics: Beginner	150723	1		
Robotics: Intermediate	150729	1		
Robotics: Advanced (One Credit)	150730	1		
FIRST ROBOTICS I (1 CREDIT)	150740	1		



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FIRST ROBOTICS II (1 CREDIT)	150750	1		
FIRST ROBOTICS III (1 CREDIT)	150760	1		
FIRST ROBOTICS IV (1 CREDIT)	150770	1		
AP PHYSICS C: ELECTRICITY AND MAGNETISM	150794	1		
AP PHYSICS C: MECHANICS	150795	1		
GEOMETRY	160323	1		
FINANCIAL LITERACY (formerly Financial Math)	160345	1		
TECHNICAL MATH	165010	1		
JR. ROTC III	170003	1		
JR. ROTC IV	170004	1		
LAW STUDIES	220506	1		
Advanced Electrical Electronics	310383	1	✓	
Advanced Electrical and Electronics Laboratory	310384	1	✓	
BASIC ELECTRICITY I (1 CREDIT)	310400	1	✓	
BASIC ELECTRICITY I (2 CREDITS)	310402	2	✓	
BASIC ELECTRICITY I (3 CREDITS)	310403	3	✓	
BASIC ELECTRICITY II (1 CREDIT)	310410	1	✓	
BASIC ELECTRICITY II (2 CREDITS)	310412	2	✓	
BASIC ELECTRICITY II (3 CREDITS)	310413	3	✓	
COMMERCIAL ART I (1 CREDIT)	310700	1	✓	
COMMERCIAL ART I (2 CREDITS)	310702	2	✓	
COMMERCIAL ART I (3 CREDITS)	310703	3	✓	
COMMERCIAL ART II (1 CREDIT)	310705	1	✓	

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COMMERCIAL ART II (2 CREDITS)	310712	2	✓	
COMMERCIAL ART II (3 CREDITS)	310713	3	✓	
Commercial Art III (1 credit)	310714	1	✓	
Commercial Art III (2 credit)	310715	2	✓	
Commercial Art III (3 credit)	310716	3	✓	
Commercial Art IV (1 credit)	310717	1	✓	
Commercial Art IV (2 credit)	310718	2	✓	
Commercial Art IV (3 credit)	310719	3	✓	
COMPUTER ELECTRONICS I (1 CREDIT)	310800	1	✓	
COMPUTER ELECTRONICS I (2 CREDITS)	310802	2	✓	
COMPUTER ELECTRONICS I (3 CREDITS)	310803	3	✓	
COMPUTER ELECTRONICS II (1 CREDIT)	310805	1	✓	
COMPUTER ELECTRONICS II (2 CREDITS)	310812	2	✓	
COMPUTER ELECTRONICS II (3 CREDITS)	310813	3	✓	
Computer Service Technology I	310818	1	✓	
Computer Service Technology II	310819	1	✓	
COMPUTER SERVICE TECHNOLOGY I (2 CREDITS)	310820	2	✓	
COMPUTER SERVICE TECHNOLOGY I (3 CREDITS)	310821	3	✓	
COMPUTER SERVICE TECHNOLOGY II (2 CREDITS)	310822	2	✓	
COMPUTER SERVICE TECHNOLOGY II (3 CREDITS)	310823	3	✓	
NETWORKING BASICS (2 CREDITS)	310850	2	✓	
NETWORKING BASICS (3 CREDITS)	310851	3	✓	

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ROUTERS AND ROUTING BASICS (2 CREDITS)	310852	2	✓	
ROUTERS AND ROUTING BASICS (3 CREDITS)	310853	3	✓	
SWITCHING BASICS & INTERMEDIATE ROUTING (2 CREDITS)	310854	2	✓	
SWITCHING BASICS & INTERMEDIATE ROUTING (3 CREDITS)	310855	3	✓	
WAN TECHNOLOGIES (2 CREDITS)	310856	2	✓	
WAN TECHNOLOGIES (3 CREDITS)	310857	3	✓	
AUDIO ENGINEERING	311314	1	✓	
ELECTRICIAN I (1 CREDIT)	311400	1	✓	
ELECTRICIAN I (2 CREDITS)	311402	2	✓	
ELECTRICIAN I (3 CREDITS)	311403	3	✓	
ELECTRICIAN II (1 CREDIT)	311405	1	✓	
ELECTRICIAN II (2 CREDITS)	311412	2	✓	
ELECTRICIAN II (3 CREDITS)	311413	3	✓	
ELECTRONICS I (1 CREDIT)	311500	1	✓	
ELECTRONICS I (2 CREDITS)	311502	2	✓	
ELECTRONICS I (3 CREDITS)	311503	3	✓	
ELECTRONICS II (1 CREDIT)	311505	1	✓	
ELECTRONICS II (2 CREDITS)	311512	2	✓	
ELECTRONICS II (3 CREDITS)	311513	3	✓	
GRAPHIC ARTS I (1 CREDIT)	311600	1	✓	
GRAPHIC ARTS I (2 CREDITS)	311602	2	✓	
GRAPHIC ARTS I (3 CREDITS)	311603	3	✓	

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GRAPHIC ARTS II (1 CREDIT)	311605	1	✓	
GRAPHIC ARTS II (2 CREDITS)	311612	2	✓	
GRAPHIC ARTS II (3 CREDITS)	311613	3	✓	
Graphic Arts III (1 credit)	311614	1	✓	
Graphic Arts III (2 credits)	311615	2	✓	
Graphic Arts III (3 credits)	311616	3	✓	
Graphic Arts IV (1 credit)	311617	1	✓	
Graphic Arts IV (2 credits)	311618	2	✓	
Graphic Arts IV (3 credits)	311619	3	✓	
NCCER Core	311720	1	✓	✓
INDUSTRIAL ELECTRONICS I (1 CREDIT)	311800	1	✓	
INDUSTRIAL ELECTRONICS I (2 CREDITS)	311802	2	✓	
INDUSTRIAL ELECTRONICS I (3 CREDITS)	311803	3	✓	
INDUSTRIAL ELECTRONICS II (1 CREDIT)	311805	1	✓	
INDUSTRIAL ELECTRONICS II (2 CREDITS)	311812	2	✓	
INDUSTRIAL ELECTRONICS II (3 CREDITS)	311813	3	✓	
Industrial and Plant Safety	311921	1	✓	
Introduction to Hazardous Materials	311922	1	✓	
Workplace Safety (1 Credit)	311923	1	✓	
Workplace Safety (2 Credit)	311924	2	✓	
PRINTING I (1 CREDIT)	312600	1	✓	
TELEVISION PRODUCTION I (1 CREDIT)	312800	1	✓	

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TELEVISION PRODUCTION I (2 CREDITS)	312802	2	✓	
TELEVISION PRODUCTION I (3 CREDITS)	312803	3	✓	
TELEVISION PRODUCTION II (1 CREDIT)	312805	1	✓	
TELEVISION PRODUCTION II (2 CREDITS)	312812	2	✓	
TELEVISION PRODUCTION II (3 CREDITS)	312813	3	✓	
NCCER ELECTRICAL I (1 CREDIT)	313400	1	✓	✓
NCCER ELECTRICAL I (2 CREDITS)	313402	2	✓	✓
NCCER ELECTRICAL I (3 CREDITS)	313403	3	✓	✓
NCCER ELECTRICAL II (1 CREDIT)	313405	1	✓	✓
NCCER ELECTRICAL II (2 CREDITS)	313412	2	✓	✓
NCCER ELECTRICAL II (3 CREDITS)	313413	3	✓	✓
NCCER Electrical III (1 Credit)	313417	1	✓	✓
NCCER Electrical III (2 Credits)	313418	2	✓	✓
NCCER Electrical III (3 Credits)	313419	3	✓	✓
NCCER Electrical IV (1 Credit)	313420	1	✓	✓
NCCER Electrical IV (2 Credits)	313421	2	✓	✓
NCCER Electrical IV (3 Credits)	313422	3	✓	✓
TALENTED ART I (1 CREDIT)	600200	1		
TALENTED ART II (1 CREDIT)	600201	1		
TALENTED THEATER I (1 CREDIT)	600210	1		
TALENTED THEATER II (1 CREDIT)	600211	1		
TALENTED THEATER III (1 CREDIT)	600212	1		

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TALENTED THEATER IV (1 CREDIT)	600213	1		
LCTCS course(s) that generate Dual Enrollment credit aligned with approved pathway courses				

\*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.  
 Note: *course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.*

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**Universal Jump Start Courses – these courses are part of every Jump Start graduation pathway**

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Accounting	040101	1	✓	✓
Accounting II	040104	1	✓	✓
Entrepreneurship (Business)	040110	1	✓	
Word Processing	040203	1	✓	
Computer Technology Literacy	040220	1	✓	
Keyboarding	040225	½	✓	
Keyboarding Applications	040226	½	✓	
Keyboarding	040229	1	✓	
Business Law	040303	½	✓	
Business Communications	040305	1	✓	
Principles of Business	040306	1	✓	
Business Math*	040307	1	✓	
Business Computer Applications (BCA)	040400	1	✓	
Introduction to Business Computer Applications (IBCA)	040401	1	✓	
Customer Service	041001	1	✓	
Personal Finance	041022	½	✓	
Principles of Marketing I	041025	1	✓	
Principles of Marketing II	041026	1	✓	
Entrepreneurship - Marketing	041040	1	✓	
Entrepreneurship II - Advanced Micro-Enterprise Credentials	041041	1	✓	✓
JAG III	042030	1	✓	✓

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JAG IV	042040	1	✓	✓
Speech I	051101	1		
Speech II	051102	1		
Career Success Skills	080407	1	✓	
Principles of Finance	080670	½	✓	
Entrepreneurship (NAF)	080685	½	✓	
Managerial Accounting	080691	½	✓	
Customer Service	080720	½	✓	
Assistive Technology for the Visually Impaired	080900	1		
Business Enterprises for the Visually Impaired	080901	1		
Braille I	080902	1		
Braille II	080903	1		
First Responder	090710	½	✓	
First Responder	090711	1	✓	
First Responder	090712	2	✓	
Technical Writing* [ <i>TOPS Tech-qualifying English course</i> ]	120350	1		
AMERICAN SIGN LANGUAGE I	123456	1		
AMERICAN SIGN LANGUAGE II	123457	1		
Technical Reading and Writing* (NOT a TOPS Tech-qualifying course)	125010	1		
Business Communications	125030	1		
Financial Literacy (formerly Financial Mathematics)*	160345	1		
Technical Math*	165010	1		
JR ROTC III	170003	1		



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JR ROTC IV	170004	1		
Law Studies	220506	1		
Industrial and Plant Safety	311921	1	✓	
Introduction to Hazardous Materials	311922	1	✓	
Workplace Safety (1 credit)	311923	1	✓	
Workplace Safety (2 credits)	311924	1	✓	
Financial Literacy (formerly Financial Mathematics) <b>INACTIVE COURSE CODE</b>	<del>040304</del>			Please use course code 160345 for this course

\* - Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.

Note: course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.

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**Career Readiness Courses – these courses are part of every Jump Start pathway**

These courses all qualify as Career Readiness courses. Every Jump Start student must take a minimum of one Carnegie credit of Career Readiness courses.

There is no limit on the number of Career Readiness course credits a student may apply to the 9 CTE course credit requirement for the Jump Start Career Diploma.

**Career Readiness courses are universal courses – they apply to every Jump Start graduation pathway.**

Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
AgriScience I*	010301	1	✓	
Career Readiness Agriscience Agribusiness Natural Resources	010331	1	✓	
JAG I	042010	1	✓	✓
JAG II	042020	1	✓	✓
Education for Careers	080400	½	✓	
Education for Careers	080401	1	✓	
Journey to Careers Part 1	080402	½	✓	
Journey to Careers	080403	1	✓	
Journey to Careers Part 2	080404	½	✓	
Education for Careers Part I	080405	½	✓	
Education for Careers Part II	080406	½	✓	
Basic Career Readiness	080409	1	✓	
Advanced Career Readiness (including regionally-developed Career Readiness Courses)	080410	1	✓	

\*- Courses that count towards an academic requirement cannot also count towards the requirement of 9 Carnegie credits for a graduation pathway.  
 Note: course codes beginning with "01", "04", "07", "08", "09", "10", "11" or "31" are CTE courses that qualify for the basic 6% CTE adder payment.

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**Internships, Cooperative Courses and Virtual Workplace Experience Courses**

**Cooperative courses, Virtual Workplace Experience courses, Pre-Apprenticeship and Internships (with the exception of Non-CTE Internships) are universal courses - they apply to every Jump Start graduation pathway.**

**Internships**

There are three types of internships:

- 1) **CDF-Qualifying Internships** where students are placed in a company that operates in one of the WIC-approved high-demand industry sectors. CDF-Qualifying Internships qualify for *both* the 6% MFP adder paid for all CTE courses *and* the 6% Career Development Fund (CDF) adder;
- 2) **CTE Internships** where students are placed in a company that operates in any other industry sectors. CTE Internships qualify *only* for the 6% MFP adder for all CTE courses; and
- 3) **Non-CTE internships** where students are placed in a non-business internship. Non-CTE Internships do not qualify for any MFP adder. Examples of Non-CTE Internships include internships at a school office, a volunteer organization or a religious organization. **Non-CTE Internships are not part of any Jump Start graduation pathway.**

**WIC-Approved High-Demand Industry Sectors**

Internships that qualify for the 6% CDF payment ***must*** be in a WIC-approved high-demand industry sector.

<ul style="list-style-type: none"> <li>• Automotive Service/Repair</li> <li>• Construction Crafts</li> <li>• Culinary (<b><i>only</i></b> for students pursuing the statewide ProStart/ SafeServ credentials)</li> </ul>	<ul style="list-style-type: none"> <li>• Healthcare</li> <li>• HVAC</li> <li>• Information Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing</li> <li>• Pharmacy</li> <li>• Transportation and Logistics</li> </ul>
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<b>Internships</b>				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
CDF-Qualifying CTE Internship I (2 CREDITS)	080200	1	✓	✓
CDF-Qualifying CTE Internship II (2 CREDITS)	080201	2	✓	✓
CDF-Qualifying CTE Internship I (1 CREDIT)	080202	1	✓	✓
CDF-Qualifying CTE Internship II (1 CREDIT)	080203	2	✓	✓
CTE Internship I (1 credit; Non-CDF)	110402	1	✓	
CTE Internship I (2 credits; Non-CDF)	110403	2	✓	
CTE Internship II (1 credit; Non-CDF)	110404	1	✓	
CTE Internship II (2 credits; Non-CDF)	110405	2	✓	
<b>Non-CTE Internships are <u>not</u> part of any Jump Start graduation pathway.</b>				
Non-CTE Internship I	400200	1		
Non-CTE Internship I	400210	2		
Non-CTE Internship II	400220	2		
Non-CTE Internship II	400230	1		

<b>Virtual Workplace Experience Courses approved for 2016-2017</b>				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Virtual Workplace Experience I	080204	½	✓	
Virtual Workplace Experience I	080205	1	✓	
Virtual Workplace Experience II	080206	½	✓	
Virtual Workplace Experience II	080207	1	✓	
Authentic Workplace Experience	080212	1	✓	

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<b>Cooperative Courses</b>				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Cooperative AgriScience Education I	010323	3	✓	
Cooperative AgriScience Education II	010325	3	✓	
Cooperative Office Education	040205	3	✓	
Cooperative Marketing Education I	041010	3	✓	
Cooperative Marketing Education II	041011	3	✓	
General Cooperative Education I	080300	3	✓	
General Cooperative Education II	080301	3	✓	
Cooperative Health Occupations	090004	3	✓	
Cooperative Family and Consumer Services	100800	3	✓	
Cooperative Technology Education	110098	3	✓	

<b>Pre-Apprenticeship Courses</b>				
Course Title	Course Code	Carnegie Credits	CTE 6%	CDF 6%
Pre-Apprenticeship I (2 credits)	080208	2	✓	
Pre-Apprenticeship II (2 credits)	080209	2	✓	
Pre-Apprenticeship I (1 credit)	080210	1	✓	
Pre-Apprenticeship II (1 credit)	080211	1	✓	

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<b>CDF-Qualifying Pre-Apprenticeship Courses</b>				
<b>Course Title</b>	<b>Course Code</b>	<b>Carnegie Credits</b>	<b>CTE 6%</b>	<b>CDF 6%</b>
CDF-QUALIFYING PRE-APPRENTICESHIP I (1 CREDIT)	080230	1	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP I (2 CREDITS)	080231	2	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP II (1 CREDIT)	080233	1	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP II (2 CREDITS)	080234	2	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP III (1 CREDIT)	080236	1	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP III (2 CREDITS)	080237	2	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP IV (1 CREDIT)	080239	1	✓	✓
CDF-QUALIFYING PRE-APPRENTICESHIP IV (2 CREDITS)	080240	2	✓	✓

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<b>Culminating Credential(s)</b>
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To graduate using a Statewide graduation pathway students must attain only the Statewide credential (which is approved by the Workforce Investment Council) or the equivalent LCTCS Certificate of Technical Studies / Technical Diploma.

- Students who graduate with a Basic Statewide credential earn their school 110 accountability points.
- Students who graduate with an Advanced Statewide credential earn their school 150 accountability points.

Culminating Credential(s) / Certifying Industry Agency(ies)	<p><b><u>ADVANCED:</u></b></p> <p>1) Adobe Certified Expert          OR          Attain a Louisiana post-secondary institution Technical Diploma (TD) or above aligned with this pathway</p> <p><b><u>BASIC:</u></b></p> <p>1) Adobe Certified Associate          2) Autodesk AutoCAD          3) CompTIA A+ Certification          4) CompTIA Network+ Certification          5) CompTIA Security+ Certification          OR          Attain a Louisiana post-secondary institution Certificate of Technical Studies (CTS) aligned with this pathway</p>
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## Sample Schedule

This schedule is *only one example* of how a student can meet the requirements of this pathway and graduate on time with the required culminating credential(s).  
 Each high school will develop its own standard schedules for Jump Start students based on the courses available to its students (in school, at the local technical college, or via Course Choice).

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Algebra I English I Physical Science Civics <b><i>Introduction to Business Computer Applications</i></b> <b><i>Basic Career Readiness</i></b> Physical Education I	Geometry English II Biology U. S. History <b><i>Computer Technology Literacy</i></b> <b><i>Computer Architecture</i></b> Physical Education II / Health	Math Essentials English III <b><i>Computer Service Technology I</i></b> <b><i>Computer Systems/Networking I</i></b> <i>Elective Course</i> <i>Elective Course</i> <i>Elective Course</i>	Financial Literacy English IV <b><i>CTE Internship I (2 credits)</i></b> <b><i>Independent Study in Technology Applications</i></b> <i>Elective Course</i> <i>Elective Course</i>
7 credits	7 credits	7 credits	7 credits
Credential Earned by this Hypothetical Student	CompTIA A+ Certification		
<b><i>Bold italicized courses count as one of the required 9 Carnegie credits for graduating via this CTE pathway</i></b>			

### ***Every Pathway Can be Adapted for Students Meeting Act 833 (2014) Eligibility Criteria***

***Every Jump Start graduation pathway can be adapted for students with disabilities who meet Act 833 (2014) eligibility criteria.*** Students must complete nine credits of CTE courses from the courses listed in the pathway. The IEP team has the authority to determine the credentialing level a student must achieve for the purposes of graduation (analogous to using individual performance criteria to meet EOC requirements for the purposes of graduation).

IEP teams with questions about how to adapt this graduation pathway for their student should contact [JumpStart@la.gov](mailto:JumpStart@la.gov)