

**Jump Start 2.0 Associate of Science: Computer Science (Scientific Option)**

Postsecondary Partner: [Southern University Shreveport](#)

**Overview**

The Certificate of Applied Science is designed to attract students who desire to learn about technology as it relates to business rather than from a scientific perspective. After graduation, a student will be able to go directly into the workforce into various computer-related fields, or the student may choose to continue their educational path at a higher institution in Computer Information Systems or Management Information Systems.

**Capstone Credentials**

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
<a href="#">-Microsoft Word, PowerPoint and Excel</a> <a href="#">-Microsoft Access</a>	<a href="#">-CompTIA IT Fundamentals</a>	<a href="#">-CompTIA Network+</a> <a href="#">-CompTIA A+</a>	Associate of Science: Computer Science (Scientific Option)

\*Core Academic Course

\*\*Jump Start CTE Course

Grade 9	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English I 120331	*English II 120332
*Algebra I 160321	*Financial Literacy 160345
*Physical Science 150802	*Biology 150301
*Civics 220501/220504	*U.S. History 220403

Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*Physical Education I 190105	*½ Physical Education II 190106 ½ Health Education 190500
**Quest for Success 080411	Elective of Choice code TBD by course selected
**Intro to Bus Comp Apps 040401	*Algebra II 160322
Elective of Choice code TBD by course selected	Elective of Choice code TBD by course selected

*Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.*

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Freshman English I SENL 101S	*English III: DE - CENL 1013 English Composition I 120601	*Trigonometry SMAT 122S	*Advanced Mathematics - Pre-Calculus: DE - CMAT 1223 Trigonometry 160501
*Pre-Calculus Algebra SMAT 121S	*Pre-Calculus: DE- CMAT 1233 or (CMAT 1213 & 1223) Alg & Trig 160502	**Python CMPS 150S	**DE Python 890342
*General Biology Lecture SBIO 103S and General Biology Lab SBIO 103LS	*Biology II: DE - CBIO 1023 General Biology II 150325	**Introduction to Programming in C++ CMPS 293S	**DE Introduction to Programming in C++ 890340
**Structured Programming CMPS 140S	**DE Structured Programming 890343	**Business Applications CMPS 225S	**DE Business Computer Applications 040400
College Success FROR 120S	DE College Success 890200	**Data Structures CMPS 240S	**DE Data Structures and Algorithms 080507



Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Freshman English II SENL 102S	*English IV: DE - CENL 1023 English Composition II 120607	**Public Speaking SCOM 2015	**DE Speech I 051101
**Object-Oriented Programming using Java CMPS 296S	*DE Object-Oriented Programming using Java 890341	Physical Science I SPHY 102S	Physical Science: DE - CPHY 1023 Physical Science I 150915
*Analytic Geometry and Calculus I SMAT 211S	*Calculus: DE - CMAT 2113-5 Calculus I 160506	Intro to Sociology SSOC 201S	DE Sociology 220601
**Discrete Structures CMPS 250S	**DE Discrete Structures 080506	**Computer Systems Maintenance CNET 145S	**DE CompTIA A+ Level 1 825015
Understanding the Arts FIAR 200S	Fine Arts Survey: DE - CART 1013 Exploring the Arts 030593	**Support Client Operating System CNET 156S	**DE CompTIA A+ Level 2 825014

*This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review panel will consider course equivalents on an as needed basis.*