

TOPS University Associate of Applied Science: Cloud Computing

Postsecondary Partner: [Delgado Community College](#)

Overview

The goals of this pathway are to prepare students for entry-level positions in cloud computing and to provide the appropriate foundation for further studies in cloud computing. The pathway provides students with instruction on the overall computer information technology environment, local and virtual computer networks, networked data security, management of IT projects and IT support for cloud systems.

Capstone Credentials

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Career and Technical Certificate: Cloud Computing	- CompTIA IT Fundamentals	- CompTIA A+ - CompTIA Linux+	-Associate of Applied Science: Cloud Computing

*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	*Geometry 160323
*Civics 220501/220504	*½ Physical Education II 190106 ½ Health Education 190500
*Physical Education I 190105	*Earth Science 150901, Physical Science 150802 or Environmental Science 150310



Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English III 120333	*Core Academic Art
*Algebra II 160322	*U.S. History 220403
*Foreign Language I	*Foreign Language II
*Biology 150301	*Chemistry 150401

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
*English Composition I ENGL 101/110 or ENRE 110	*English IV: DE - CENL 1013 English Composition I 120606	**Intro. to Info. Security CMIN 244	**DE Cybersecurity 040223
**Princ. of Management (Lower Level) MANG 201	**DE Management Information Systems 313834	**Database Mgmt. Systems CMIN 266	**DE Databases Design and Programming 080501
**Logic & Design CMIN 203	**DE Programming Logic and Design 080502	**Cloud Computing Foundations CMIN 233	**DE Cloud Computing Foundations 890311
**Network Systems Basics CNET 157	**DE Computer Systems/ Networking I 061112	**Agile Project Mgmt. CMIN 275	**DE Agile Project Mgmt. 890309
**Fund. of Info. Tech. & Systems CMIN 204	**DE Computer Technology Literacy 040220	**IT Hardware Support ELST 262	**DE CompTIA A+ Fundamentals of Computer Installation and Configuration 061130

Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*College Algebra MATH 130	*Algebra III: DE - CMAT 1213 College Algebra 160500	**Linux System Fundamentals CNET 197	**DE Linux System Fundamentals 890312
**IT Software Support ELST 267	**DE CompTIA+ Programming with PL/SQL 061127	*Macroeconomics ECON 201	*Economics: DE - CECN 2213 Macroeconomics 220608
**Windows Server CNET 178	**DE Computer Systems/ Networking II 061136	*Natural Science Elective	*TBD by course selected
**Approved Elective	**TBD by course selected	*Western Civilization I HIST 101	*Western Civ: DE - CHIS 1013 Western Civilization I 220446
**Approved Elective	**TBD by course selected	**Approved Elective	**TBD by course selected

Approved Electives

Postsecondary Course	LDOE Course/Code
**Practicum CNET 287	**DE CDF-Qualifying CTE Internship 080198
**Virtual Computer Systems CNET 180	**DE Virtual Computer Systems 890314
**Cloud Architecture CNET 294	**DE Cloud Architecture 890310
**Internship CMIN 295	**DE CDF-Qualifying CTE Internship 080198



**Programming for
Engineering Tech. ELET
160

**DE Programming for
Engineering Tech.
890313

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.