



Central Texas College - Guided Pathway

Associate of Applied Science in Information Technology
 Bachelor of Applied Arts and Sciences (B.A.A.S.) Major in Data Analytics



First Year – Central Texas College/ Texas State University

| FIRST SEMESTER | SECOND SEMESTER |
|---|--|
| ^C *ENGL 1301 Composition I (Core 010) | * ITNW 1309-Fundamentals of Cloud Computing (Occupational Emphasis TXST) |
| ^C *MATH X3XX (Core 020) | * ITSC 1325- Personal Computer Hardware (Occupational Emphasis TXST) |
| * COSC 1301 Introduction to Computing (Occupational Emphasis TXST) | *ITSY 1342-Information Technology Security (Occupational Emphasis TXST) |
| ^C * BCIS 1305 – Business Computer Applications (core 090) | *ITNW 1308 Implementing and Supporting Client Operating Systems (Occupational Emphasis TXST) |
| *ITNW 1325 Fundamentals of Networking Technologies (Occupational Emphasis TXST) | ^C Creative Arts Core Component (050) |
| US 1100 University Seminar | |
| 16 credit hours | 15 credit hours |
| Summer – Central Texas College | |
| ^C *Social/Behavioral Sciences (core 080) | ^C HIST 1301 US History I (Core 060) |
| | 6 credit hours |

Second Year – Central Texas College/ Texas State University

| FIRST SEMESTER | SECOND SEMESTER |
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| *COSC 1315 Introduction to Computer Programming OR ITSE 1329- Programming Logic and Design (Occupational Emphasis TXST) | ^C ENGL 2311– Technical and Business Writing (Core 010) |
| * ITNW 1337-Introduction to the Internet (Occupational Emphasis TXST) | * ITSC 1315-IT Project Management (Occupational Emphasis TXST) |
| * ITNW 1316- Introduction to Network Administration (Occupational Emphasis TXST) | * IMED 1316-Web Design I (Occupational Emphasis TXST) |
| ITSC 1316- Linux Installation and Configuration (Occupational Emphasis TXST) | * ITSW 1307 Introduction to Database (2 hrs. Occupational Emphasis TXST) |
| ^C POSI 2310 Principles of American Government (Core 070) | *ITSC 2339 Personal Computer Help OR ITSC 2386-Internship- Computer and Information Sciences, General (Occupational Emphasis TXST) |
| 15 credit hours | 15 credit hours |



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Third Year - Texas State University/- Central Texas College

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|---|--|
| OCED 3350: Introduction to Interdisciplinary Studies for the Bachelor of Applied Arts and Sciences Degree | CTE 3315: Leadership and Professional Development |
| OCED 4350: Adult Development and Career Planning | OCED 4302: Trends and Issues in OWLS |
| ^c POSI 2320 Functions of American Government (Core 070) | ^c COMM 1310 Fundamentals of Human Communication (Core 91) |
| ^c HIST 1302 United States History II (Core 060) | CTE 3313P: Project Management |
| ^c Life/Physical Science (Core 030) | ^c Life/Physical Science (Core 030) |
| 15 credit hours | 15 credit hours |

Fourth Year – Texas State University

| FIRST SEMESTER | SECOND SEMESTER |
|--|---|
| CTE 3377: Data Visualization | OCED 4360. Bachelor of Applied Arts and Sciences Capstone Part 1. |
| CTE 3375: Principles of Data Science & Analytics | OCED 4361. Bachelor of Applied Arts and Sciences Capstone Part 2. |
| ^c Language, Culture and Philosophy (Core 040) | CTE 3376: Database Theory and Practices in Data Analytics |
| CTE 3313N: Problem Solving and Decision Making | CTE 3330: STEM Literacy for the Workplace |
| 12 credit hours | 12credit hours |

***Required class for AAS Degree**

^c Fulfills core requirement

Classes highlighted in gray are completed at TXST



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Minimum TXST Graduation Requirements:

- A minimum of 36 hours of advanced (3000-4000) level coursework is required.
- A minimum of 9 hours of writing Intensive coursework is required.
- A minimum of 120 overall hours is required.
- A minimum of a 2.0 Texas State GPA is required
- A minimum of a 2.25 major GPA is required

Important Note: This pathway map is intended for planning purposes only and does not guarantee course availability or fulfillment of degree requirements. Requirements may vary based on individual circumstances. Students are strongly encouraged to meet with an academic advisor regularly to ensure they are on track to complete their academic program.