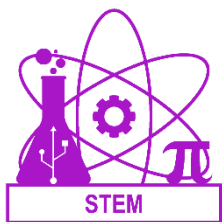


BIG BEND COMMUNITY COLLEGE

STEM

Computer Science Systems Administration – AAS



Big Bend Community College offers the Associate in Applied Science Systems Administration Degree to prepare students for careers in network systems and administration. Network administrators install and maintain computer workstations and server software, set up user accounts, maintain system resources and operations, perform troubleshooting, and manage system security. Students are trained in technical support of PC systems and in administration of Windows Server and Linux server-based operating systems.

The program prepares students to take industry certification exams in Comp TIA A+, Network+, and Project+. Students should prepare their quarterly schedules with the assistance of an advisor who is knowledgeable about the program.

ENTRY REQUIREMENTS

- Complete BBCC Admissions Process
- Complete English and Math Placement Process
- Meet with Computer Science advisor to develop a professional development plan.

Associate in Applied Science Systems Administration

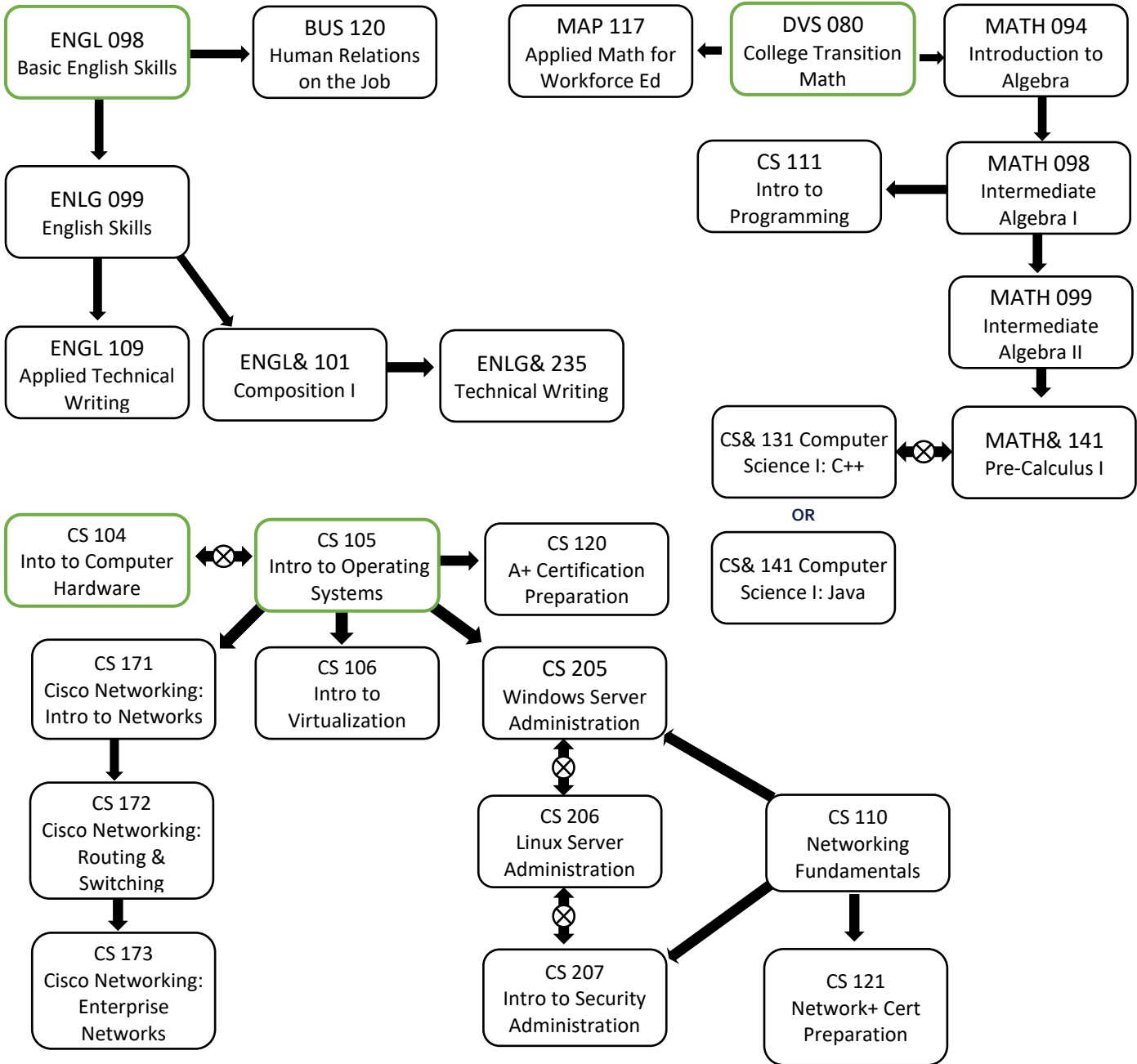
DEGREE REQUIREMENTS

- | | |
|--|--|
| <ul style="list-style-type: none"><input type="checkbox"/> RELATED INSTRUCTION (20-22)<input type="checkbox"/> ENGL& 101 – English Composition I (5)
OR
ENGL 109 – Applied Technical Writing (3)<input type="checkbox"/> MATH& 141 – Pre-Calculus (5)<input type="checkbox"/> BUS 120 – Human Relations on the Job (5)
OR
PSYC& 100 – General Psychology (5)
OR
SOC& 101 – Intro to Sociology (5)<input type="checkbox"/> CMST 100 – Human Communications (5)
OR
CMST& 220 Public Speaking (5)<input type="checkbox"/> FAD 150 – Industrial First Aid (2)<input type="checkbox"/> CORE TECHNICAL COURSES (26)<input type="checkbox"/> CS 104 – Intro to Computer Hardware (3)<input type="checkbox"/> CS 105 – Intro to Computer Operating Systems (3)<input type="checkbox"/> CS 111 – Intro to Programming (5)<input type="checkbox"/> CS 115 – Intro to Database Design & Management (5)<input type="checkbox"/> CS& 131 – Computer Science I: C++ (5)
OR
CS& 141 – Computer Science I: Java (5)<input type="checkbox"/> CS 289 – Project Management for CS (5) | <ul style="list-style-type: none"><input type="checkbox"/> SYSTEMS ADMINISTRATION CONCENTRATION (44)<input type="checkbox"/> CS 106 – Intro to Virtualization (5)<input type="checkbox"/> CS 110 – Networking Fundamentals (4)<input type="checkbox"/> CS 120 – A+ Certification Prep (1)<input type="checkbox"/> CS 121 – Network+ Certification Prep (1)<input type="checkbox"/> CS 171 – Cisco Networking: Intro to Networks (6)<input type="checkbox"/> CS 172 – Cisco Networking: Routing & Switching (6)<input type="checkbox"/> CS 173 – Cisco Networking: Enterprise Networks (6)<input type="checkbox"/> CS 205 – Windows Server Administration (5)<input type="checkbox"/> CS 206 – Linux Server Administration (5)<input type="checkbox"/> CS 207 – Intro to Security Administration (5)<input type="checkbox"/> SYSTEMS ADMINISTRATION ELECTIVES<input type="checkbox"/> ENGL& 235- Technical Writing (5)<input type="checkbox"/> WKED 101-Professional Preparation- Occ. Specific I (1)<input type="checkbox"/> WKED 102-Professional Preparation-Occ. Specific II (1)<input type="checkbox"/> WKED 103-Professional Preparation-Occ. Specific III (1)<input type="checkbox"/> Elective approved by advisor |
|--|--|

93+ TOTAL DEGREE CREDITS

Associate in Applied Science Systems Administration PRE-REQUISITE FLOW CHART

Start by talking with your assigned advisor to determine which courses to take first based on your placement scores.



KEY

STARTING POINT of SEQUENCE	→	↔
	PRE-requisite	CO-requisite

[F = fall W = winter Sp = spring Su = summer]

Courses WITHOUT PRE-requisites

CS 101, CS 104, CS 105, CS 110, CS 115, PSYC& 100, SOC& 101, CMST 100, CMST& 220, FAD 150

**STARTING WITH PLACEMENT AT PRE-CALCULUS CS SYSTEMS ADMIN
QUARTERLY PROGRAM PLAN (YEAR ONE)**

FALL	WINTER	SPRING
CS 104 CS 105 CS 110 ENGL 109 OR ENGL& 101 WKED 101	CS 120 CS 205 MATH& 141 OR MAP 117 BUS 120, PSYCH& 100, OR SOC& 101 WKED 102	CS 171 CS 206 CMST 100 OR CMST& 220 FAD 150 WKED 103
ADVISING		
FALL	WINTER	SPRING
<input type="checkbox"/> BCC Foundation scholarship app <input type="checkbox"/> Fill out FAFSA or WAFSA for next year <input type="checkbox"/> Meet with your advisor	<input type="checkbox"/> Assess program plan with advisor	<input type="checkbox"/> Assess program plan with advisor

QUARTERLY PROGRAM PLAN (YEAR TWO)

FALL	WINTER	SPRING
CS 111 CS 106 Elective	CS 172 CS 207 CS 115	CS 289 CS& 131 OR CS& 141 CS 173 OR Elective
ADVISING		
FALL	WINTER	SPRING
<input type="checkbox"/> Meet with your advisor	<input type="checkbox"/> Assess program plan with advisor <input type="checkbox"/> Attend Career Fair and start seeking employment	<input type="checkbox"/> Assess program plan with advisor <input type="checkbox"/> Apply for graduation <input type="checkbox"/> Graduate!

**STARTING WITH PLACEMENT IN DEVELOPMENTAL ENGLISH AND MATH with MATH& 141 Track
QUARTERLY PROGRAM PLAN (YEAR ONE)**

ADVISING

FALL	WINTER	SPRING	SUMMER
MATH 094-099 CS 104 CS 105 CS 110 WKED 101	ENGL 099 CS 205 WKED 102	MATH& 141 ENGL& 101 OR ENGL 109 CS 120 and CS 171 CS 206 WKED 103	FAD 150 CMST& 220 OR CMST 100
FALL	WINTER	SPRING	
<input type="checkbox"/> Discuss accelerated English and math options with advisor! <input type="checkbox"/> BCC Foundation scholarship app <input type="checkbox"/> Fill out FAFSA or WAFSA for next year <input type="checkbox"/> Meet with your advisor	<input type="checkbox"/> Develop and update degree plan with advisor	<input type="checkbox"/> Update degree plan with advisor <input type="checkbox"/> Register for summer and fall quarters	

QUARTERLY PROGRAM PLAN (YEAR TWO)

FALL (15 CR)			WINTER (15 CR)			SPRING (15 CR)		
CS 106 CS 111 BUS 120, PSYCH& 100, OR SOC& 101			CS 115 CS 172 CS 207			CS 289 CS& 131 OR CS& 141 CS 173 OR Elective		
ADVISING								
FALL			WINTER			SPRING		
<input type="checkbox"/> BBCC Foundation scholarship app <input type="checkbox"/> Fill out FAFSA or WAFSA for next year <input type="checkbox"/> Meet with your advisor			<input type="checkbox"/> Assess program plan with advisor <input type="checkbox"/> Attend Career Fair and start seeking employment			<input type="checkbox"/> Assess program plan with advisor <input type="checkbox"/> Apply for graduation		

QUARTERLY REGISTRATION PLANNING

QUARTER:				REGISTRATION ACCESS CODE:		
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #	

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QUARTER:				REGISTRATION ACCESS CODE:		
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #	

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QUARTER:		REGISTRATION ACCESS CODE:			
CLASS	TITLE	CREDITS	DAYS	TIME	ITEM #

BIG BEND COMMUNITY COLLEGE
WORKFORCE EDUCATION PROGRAM REQUIREMENTS

Certificate of Achievement

Students working toward a Certificate of Achievement need to develop a program plan with the faculty advisor in their Workforce Education area of interest. The plan must include all related instruction components. The Certificate of Achievement is designed to provide recognition for the student who has not completed an Associate in Applied Science degree program.

Certificate of Accomplishment

Students working toward a Certificate of Accomplishment need to develop a program plan with the faculty advisor in their Workforce Education area of interest. The Certificate of Achievement is designed to provide recognition for the student who does not complete a Certificate of Achievement or an Associate in Applied Science degree program.

Changes or substitutions for course work in the college catalog must be listed and approved by the advisor. It is essential that students meet quarterly with their advisor before registration to review progress and plan their program.

Each program plan must be approved by the Workforce Education program advisor and Dean of Workforce Education. Certificates will be issued out of the Dean of Workforce Education Instructional Services office.

Certificate of Achievement

Certificate of Accomplishment

Title of Certificate:

Advisor Approval:

Advisor

Date

Program Completion Approval:

Dean of Workforce Education

Date

Instructional Services Office Assistant

Date

Big Bend Community College WORKFORCE EDUCATION PROGRAM REQUIREMENTS

Associate in Applied Science Degree

Credit Requirement: Completion of the total credit requirements of the approved Workforce Education Program Plan. Minimum of 90 quarter hours. It is the student's responsibility to insure that he/she meets all of the technical and general education degree requirements.

MATHEMATICS REQUIREMENT: 3-5 credits* in mathematics courses as stated in the approved Professional/Technical Program Plan.

BUS 102	Business Mathematics
MAP 100	Applied Mathematics (AMT)*
MAP 101	Applied Mathematics (AUT/WLD)
MAP 103	Applied Mathematics (MMT/IET)
MAP 117	Applied Mathematics for Workforce I
MAP 119	Applied Mathematics for Workforce II
MATH& 107	Math in Society
MATH& 141	Pre-Calculus I
MATH& 146	Intro to Statistics
MATH 147	Finite Mathematics

*AMT program requires two MAP 100 credits

WRITTEN COMMUNICATIONS REQUIREMENT: 3-5 credits in written communications courses as stated in the approved Professional/Technical Program Plan.

BUS 121	Business English
ENGL& 101	English Composition I
ENGL 109	Applied Technical Writing

ORAL COMMUNICATIONS REQUIREMENT: 3-5 credits in oral communications courses as stated in the approved Professional/Technical Program Plan.

AVF 225	Effective Communications in Flight Instruction
CMST 100	Human communications
CMST& 210	Interpersonal Communications
CMST& 220	Public Speaking

HUMAN RELATIONS REQUIREMENT: 3-5 credits in human relations courses as stated in the approved Professional/Technical Program Plan.

BUS 120	Human Relations on the Job
EDUC& 115	Child Development
PSYC& 100	General Psychology
SOC& 101	Intro to Sociology

INDUSTRIAL FIRST AID REQUIREMENT: 2 credits in Industrial First Aid or equivalent or higher certification as stated in the approved Professional/Technical Program Plan.

FAD 150	Industrial First Aid and CPR plus Bloodborne Pathogens
Current First Aid/CPR, First Responder, or EMT card	

Approval: _____

Advisor _____ Date _____

Program Completion Approval: _____

Dean of Workforce Education _____ Date _____

Each program must be approved by the Workforce Education program advisor. Program changes and substitutions must be approved by the program advisor prior to application for degree.