



## Computer & Information Technologies – Network Technologies

**Primary Platform: Microsoft, Secondary: Linux (110101713)**

**Credential: AAS**

**Program Coordinator:** Don Halcomb  
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**Program Website:** <https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx>

**Student Name:**

**Student ID:**

*Students need to be at KCTCS placement levels for all courses*

Pre-Admission Requirements (if applicable)				
Summer Term	Credits	Term	Grade	Prereqs/Notes
CIT 105 – Introduction to Computers	3			See note below about Special Exam for Credit. Well qualified students (as determined by CIT faculty only) may be given permission to take CIT 105 along with CIT 111 and/or CIT 161. Please send student to a CIT faculty member to discuss this.
<b>Total Semester Credit Hours</b>	<b>3</b>			

First Semester	Credits	Term	Grade	Prereqs/Notes
*CIT 111 – Computer Hardware and Software	4			Prereq: CIT 105 AND (MAT 65 OR MAT 75)
CIT 160 - Introduction to Networking Concepts OR *CIT 161 - Introduction to Networks	4			Prerequisite or Co-requisite: CIT 111 OR Consent of Instructor
ENG 101 – Writing I	3			
MAT 150 – College Algebra (strongly recommended) OR MAT 126	3			MAT 150 also fulfills Quantitative Reasoning requirement for students planning to continue to complete a B.S. degree.
<b>Total Semester Credit Hours</b>	<b>14</b>			

Second Semester (Spring)	Credits	Term	Grade	Prereqs/Notes
*CIT 120 – Computational Thinking	3			Pre-requisite or Co-requisite: MAT 085 OR (MAT 126 OR higher) OR consent of Instructor
*CIT 180 - Security Fundamentals	3			Prerequisite: (CIT 160 OR CIT 161) OR Consent of Instructor
CIT 170 - Database Design Fundamentals	3			Prerequisite: CIT 105 AND (MAT 85 OR MAT 126 OR higher) OR Consent of Instructor
* Networking Platform Courses: CIT 217: UNIX/Linux Administration (Spring Only) AND CIT 218: UNIX/Linux Net Infrastructure (Spring Only)	6			Prerequisite: (CIT 160 OR CIT 161) OR Consent of Instructor
<b>Total Semester Credit Hours</b>	<b>15</b>			

Third Semester (Fall)	Credits	Term	Grade	Prereqs/Notes
CIT 219: Internet Protocols	3			Prerequisite: (CIT 160 OR CIT 161) OR Consent of Instructor
<p>**Networking Platform Courses:</p> <p>CIT 213: Microsoft Client*** AND CIT 214: Microsoft Server Configuration (6) (Fall only)</p>	6			<p>Students must complete a minimum of 15 credit hours in platform courses. For Microsoft/Linux students 9 hours must be Microsoft platform courses chosen from CIT 213, CIT 214, CIT 215, and CIT 216. (CIT 214 is a prerequisite for CIT 215 and CIT 216.)</p> <p>The secondary Linux platform requires CIT 217 and CIT 218 (Spring only).</p> <p>***Microsoft students choosing to focus on Microsoft Server can take CIT 214 only during the Fall term and both CIT 215 and CIT 216 during the Spring term. (Move GenEd courses around as needed to balance semesters.)</p> <p>Please have students check with CIT faculty to confirm course rotation.</p>
Heritage OR Humanities course	3			May be taken any semester
Level 1 Programming Language	3			Prerequisite: CIT 120 OR Consent of Instructor
<b>Total Semester Credit Hours</b>	<b>15</b>			

Fourth Semester (Spring)	Credits	Term	Grade	Prereqs/Notes
<p>*Networking Platform Courses</p> <p>CIT 215: Microsoft Server Administration OR CIT 216: Microsoft Server Advanced Services</p> <p>:</p>	3			<p>Students must complete a minimum of 15 credit hours in platform courses. For the Microsoft/Linux specialization, students must take 9 hours of Microsoft courses including CIT 214 and two of CIT 213, CIT 215, CIT 216. Students must also take CIT 217 and CIT 218.</p> <p>Prerequisites: CIT 160 or CIT 161 CIT 214 is a prerequisite for CIT 215 and CIT 216.</p> <p>Students who took CIT 214 but not CIT 213 during the previous semester should take both CIT 215 and CIT 216 this semester.</p>
CIT 288: Network Security	3			Prerequisite: CIT 180 AND at least six platform specific credit hours
CIT 293 – CIT Employability Skills	1			Should be taken during the last semester
Social/Behavioral Science Course	3			May be taken any semester
Science General Education Course	3			
<b>Total Semester Credit Hours</b>	<b>13</b>			
<b>Total Credential Hours</b>	<b>60</b>			

Course Rotation Schedule (if applicable)	
Cisco Platform Courses	

CIT 167 (prereq CIT	Spring (and occasionally Summer) only
CIT 209	Fall only
CIT 212	Spring only
<b>Microsoft Platform Courses</b>	
CIT 213	Fall Only
CIT 214	Fall Only
CIT 215 (prereq CIT 214)	Spring Only
CIT 216 (prereq CIT 214)	Spring Only
<b>Linux Platform Courses</b>	
CIT 217 (prereq CIT 160/161)	Spring Only (8-week course)
CIT 218 (prereq CIT 217)	Spring Only (2 <sup>nd</sup> 8-week session)
CIT 255 (prereq 217/218)	Spring Only (online)
Approved Linux Programming Lang.	Course availability varies by semester. See catalog for approved languages.

**Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.**

**Advisor Name:** \_\_\_\_\_ **Advisor Signature:** \_\_\_\_\_

**Student Name:** \_\_\_\_\_ **Student Signature:** \_\_\_\_\_

<b>Special Instructions:</b>
<p>*Priority classes: These classes should be taken first even if the student is not taking a full load.</p> <p>Special Exams for Credit are given near the beginning of each semester, usually on the Thursday before classes start. Special Exams are offered for CIT 105, CIT 111, CIT 120, and CIT 130. Each exam has a small fee (\$20 - \$40). Please contact CIT faculty for details.</p> <p>Please send CIT students to a CIT faculty advisor if possible. Students not assigned to a CIT faculty advisor can send a message to the <a href="mailto:BL-CIT-Advising@kctcs.edu">BL-CIT-Advising@kctcs.edu</a> email address to schedule an appointment, even during the summer term.</p> <p>There are no electives in this track.</p>