

IT Specialist Certificate (2403)

This certificate program builds upon previous information technology foundational skills by providing core competencies as well as breadth and depth in specific focus areas. It is designed to prepare students for employment in a variety of positions requiring more specialized computer knowledge and skills. It also fulfills one of the designated steps leading to completion for all of the IT degree concentrations.

Course	Title	Credit Hours
Completion of a minimum of 15 credits in ITCS/ITDB/ITIS/ITON courses ¹		15
(At least one course must be selected from within the list of IT Industry Certification Preparation courses)		

OR

Completion of one of the Information Technology & Computer Science focus areas listed below		15-18
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Tota Credit Hours: 15-18

¹ Information Technology and Computer Science (IT&CS) credits earned through the IT Foundations Certificate can be applied to the IT Specialist Certificate.

Information Technology Certification Preparation Courses

Course	Title	Credit Hours
ITDB 1400	Introduction to SQL	2
ITDB 1405	Oracle PL/SQL Programming	2
ITDB 1406	Microsoft SQL Concepts	2
ITDB 2417	Oracle Database Administration	3
ITDB 2427	Microsoft SQL Server Administration	3
ITIS 1355	Security+ and Security Essentials	3
ITIS 2015	Information Technology Project Management	3
ITIS 2355	Security Investigation and Penetration Studies	3
ITON 1205	Network+ and Networking Essentials	2
ITON 1748	Linux Administration I	3
ITON 1758	Linux Administration II	3
ITON 2240	Installing and Configuring Windows Server 2012	2
ITON 2241	Administering Windows Server 2012	2
ITON 2242	Configuring Advanced Windows Server 2012	2
ITON 2768	Linux Administration III	3

Remaining credits can be taken from within the above list or any other Information Technology (ITCS, ITDB, ITIS, ITON) courses.

Information Technology and Computer Science (IT&CS) Focus Areas

Course	Title	Credit Hours
Application Development - Android Focus Area		
ITCS 1010	Programming Logic	3
ITCS 1820	Java Programming I	3
ITCS 2820	Java/Android Programming II	3
ITCS 2821	Java/Android Programming III	2
ITDB 1400	Introduction to SQL	2
ITIS 1005	Computer Essentials	3
or ITIS 1007	Principles of Information Technology and Computer Science	
Total Credit Hours		16

Course	Title	Credit Hours
Application Development - iOS Focus Area		
ITCS 1010	Programming Logic	3
ITCS 1825	Programming I for iOS	3
ITCS 2825	Programming II for iOS	3

ITCS 2826	Programming III for iOS	2
ITDB 1400	Introduction to SQL	2
ITIS 1005	Computer Essentials	3
or ITIS 1007	Principles of Information Technology and Computer Science	

Total Credit Hours **16**

Course	Title	Credit Hours
Data Analytics Focus Area		
ITCS 1010	Programming Logic	3
ITCS 1880	R Programming I	3
ITDB 1400	Introduction to SQL	2
ITIS 1007	Principles of Information Technology and Computer Science	3
ITIS 1520	Microsoft Office Excel: Skills and Techniques	3
MATH 1550	Statistics	4

Total Credit Hours **18**

Course	Title	Credit Hours
Database Systems Focus Area		
ITCS 1010	Programming Logic	3
ITDB 1401	SQL Programming and Database Design	3
ITDB 1405	Oracle PL/SQL Programming	2
ITDB 1406	Microsoft SQL Concepts	2
ITDB 1407	MySQL Database Analysis and Design	2
ITIS 1030	Security Awareness	1
ITON 1748	Linux Administration I	3

Total Credit Hours **16**

Course	Title	Credit Hours
IT Support Focus Area		
ITIS 1007	Principles of Information Technology and Computer Science	3
ITIS 1025	Managing and Optimizing Personal Computers	3
ITIS 1027	Information Technology Support Fundamentals I	2
ITIS 1028	Information Technology Support Fundamentals II	2
ITIS 1030	Security Awareness	1
ITIS 2510	Help Desk Concepts and Management	3
ITON 1070	Operating Systems: Skills and Techniques	1
ITON 1205	Network+ and Networking Essentials	2

Total Credit Hours **17**

Course	Title	Credit Hours
Operating Systems/Networking Focus Area		
ITIS 1007	Principles of Information Technology and Computer Science	3
ITIS 1355	Security+ and Security Essentials	3
ITON 1205	Network+ and Networking Essentials	2
ITON 1748	Linux Administration I	3
ITON 2250	Installation, Storage, and Compute with Windows Server 2016	2
ITON 2080	Supporting Client Operating Systems	2

Total Credit Hours **15**

Course	Title	Credit Hours
Project Management Focus Area		
BUSM 1300	Introduction to Business	3
ITIS 1005	Computer Essentials	3
or ITIS 1007	Principles of Information Technology and Computer Science	

		3
ITIS 1008	Ethics in Information Technology	1
ITIS 1520	Microsoft Office Excel: Skills and Techniques	3
ITIS 1560	Microsoft Office Project: Skills and Techniques	3
ITIS 2015	Information Technology Project Management	3
Total Credit Hours		16

Course	Title	Credit Hours
Python and Oracle Focus Area		
ITCS 1010	Programming Logic	3
ITCS 1870	Python Programming I	3
ITCS 2873	Python Programming II	3
ITDB 1400	Introduction to SQL	2
ITDB 1405	Oracle PL/SQL Programming	2
ITIS 1007	Principles of Information Technology and Computer Science	3

Total Credit Hours **16**

Course	Title	Credit Hours
Web Development Focus Area		
ITCS 1010	Programming Logic	3
ITCS 1105	Web Programming I	3
ITDB 1400	Introduction to SQL	2
ITIS 1005	Computer Essentials	3
or ITIS 1007	Principles of Information Technology and Computer Science	
ITIS 1102	Internet: Services, Tools, and Web Page Design	3
ITIS 1108	Using an HTML Editor	2

Total Credit Hours **16**