

## IT Professional Certificate (2404)

This certificate builds upon previous information technology proficiency skills by providing professional competencies as well as an additional breadth and depth. It is designed to prepare students for employment in a variety of positions requiring a professional level of 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 24 credits in ITCS/ITDB/ITIS/ITON courses <sup>1</sup>		24
Select courses from the Business Management Electives list		6
<b>OR</b>		
Select courses from the Information Technology & Computer Science Focus Areas listed below		32-36

**Certificate Total: 30-36**

<sup>1</sup> Information Technology and Computer Science (IT&CS) credits earned through the IT Foundations and/or IT Specialist Certificates can be applied to the IT Professional Certificate.

### Business Management Electives

Course	Title	Credit Hours
BUSM 1300	Introduction to Business	3
BUSM 2000	Principles of Management	3
BUSM 2400	Business Communication	3

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

Course	Title	Credit Hours
<b>Advanced Web Concepts Focus Area</b>		
GRDS 1375	Computer Graphics AI, ID and PS	3
GRDS 1800	Introduction to User Experience Design	3
ITCS 1010	Programming Logic	3
ITCS 1820	Java Programming I	3
ITCS 2120	JavaScript Programming I	3
ITCS 2155	PHP Programming	3
ITCS 2188	Advanced Concepts in Web Development	3
ITIS 1007	Principles of Information Technology and Computer Science	3
ITON 1205	Network+ and Networking Essentials	2
ITON 1748	Linux Administration I	3
PHOT 2300	Introduction to Digital Photo Imaging	3
<b>Total Credit Hours</b>		<b>32</b>

Course	Title	Credit Hours
<b>Cybersecurity Focus Area</b>		
BUSM 1300	Introduction to Business	3
CNET 1100	Cisco Networking Technology I	3
CNET 1200	Cisco Networking Technology II	3
CNET 1735	Cisco Cyber Operations	3
CNET 2720	Cisco Network Security: Managing Security	3
ITCS 1010	Programming Logic	3
ITCS 1870	Python Programming I	3
ITIS 1007	Principles of Information Technology and Computer Science	3
ITIS 1355	Security+ and Security Essentials	3
ITIS 1360	Cyber/Computer Forensics and Counterterrorism	3
ITIS 2015	Information Technology Project Management	3
ITIS 2355	Security Investigation and Penetration Studies	3
<b>Total Credit Hours</b>		<b>36</b>

<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
<b>Data Analytics Focus Area</b>		
ITCS 1010	Programming Logic	3
ITCS 1870	Python Programming I	3
ITCS 1880	Programming for Data Analytics	3
ITDB 1401	SQL Programming and Database Design	3
ITDB 1405	Oracle PL/SQL Programming	2
ITDB 1406	Microsoft SQL Concepts	2
ITDB 1450	Visualization Tools for Data Analytics	2
ITDB 2500	Data Analytics	3
ITIS 1007	Principles of Information Technology and Computer Science	3
ITIS 1520	Microsoft Office Excel: Skills and Techniques	3
MATH 1550	Statistics (A)	4
Select course(s) from the Business Management Electives list		3
<b>Total Credit Hours</b>		<b>34</b>

<b>Course</b>	<b>Title</b>	<b>Credit Hours</b>
<b>Software System Design Focus Area</b>		
ITCS 1010	Programming Logic	3
ITCS 1820	Java Programming I	3
ITCS 1870	Python Programming I	3
ITCS 2080	Fundamentals of Software Engineering	3
ITCS 2873	Python Programming II	3
ITCS 2875	Computer Architecture and Organization	3
ITDB 1401	SQL Programming and Database Design	3
ITIS 1007	Principles of Information Technology and Computer Science	3
ITON 1205	Network+ and Networking Essentials	2
ITON 1310	Cloud Computing	3
ITON 1748	Linux Administration I	3
<b>Total Credit Hours</b>		<b>32</b>