

WESTERN DAKOTA TECHNICAL COLLEGE

COMPUTER SCIENCE – INFORMATION TECHNOLOGY SPECIALIST

Associate of Applied Science, 66 Credit Hours, 18-Month Program

The Computer Science - Information Technology Specialist program at WDTC offers an in-depth curriculum that spans 18 months, providing students with a comprehensive education in the field of information technology (IT). This program balances theory and practical application, ensuring that graduates are not only well-prepared for their initial IT roles but also primed for continued growth within the industry.

In the first nine months, students establish a solid foundation in essential computer skills and fundamental networking concepts. The subsequent nine months delve deeper into advanced networking concepts, including cybersecurity, ethical hacking, complex networks, and programming proficiency. Our program emphasizes preparing students for industry-certified exams, enhancing their marketability and opening doors to various IT roles.

Graduates of our 18-month associate degree program are equipped to pursue a wide range of IT positions, including Network Administrator, Cybersecurity Analyst, and other roles that demand strong troubleshooting and communication skills. They can apply their expertise to shape an organization's business strategy, tactics, and goals. Upon completing this associate degree program, students are not only poised for immediate entry into the workforce but also positioned for ongoing career advancement within the field of IT.

Course No.	Course Title	Credits
General Education Requirements		
CSC 105	MICROCOMPUTER SOFTWARE APPLICATIONS I	3
ENGL 101	COMPOSITION I*	3
ENGL 108	WORKPLACE COMMUNICATIONS II	3
MATH 114	COLLEGE ALGEBRA**	3
PSYC 101	GENERAL PSYCHOLOGY <i>or</i>	3
PSYC 103	HUMAN RELATIONS IN THE WORKPLACE	
	Total	15
Technical Requirements		
CIS 123	INFORMATION TECHNOLOGY HARDWARE/SOFTWARE	3
CIS 129	WINDOWS OPERATING SYSTEMS	3
CIS 131	NETWORKING TECHNOLOGIES I	3
CIS 132	NETWORKING TECHNOLOGIES II	3
CIS 133	NETWORKING TECHNOLOGIES III	3
CIS 134	NETWORKING TECHNOLOGIES IV	3
CIS 136	CLOUD FUNDAMENTALS	3
CIS 201	LINUX TECHNOLOGIES	3
CIS 213	NETWORKING USING WINDOWS SERVER	3
CIS 215	NETWORK DESIGN AND VIRTUALIZATION	3
CIS 216	INTRODUCTION TO PROGRAMMING	3
CIS 219	ADVANCED SERVER TECHNOLOGIES	3
CIS 220	NETWORK SECURITY I	3
CIS 225	DATABASES	3
CIS 230	COMPUTER FORENSICS	3
CIS 235	NETWORK SECURITY II	3
CIS 299	INTERNSHIP	3
	Total	51

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

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2024-2025 Academic Catalog – 6/2024

Semester breakdown on next page

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Semester Breakdown AAS

First Semester			CR	Second Semester			CR
CIS 123	Information Technology Hardware/Software	3		CIS 132	Networking Technologies II	3	
CIS 129	Windows Operating Systems	3		CIS 136	Cloud Fundamentals	3	
CIS 131	Networking Technologies I	3		CIS 201	Linux Technologies	3	
CIS 216	Introduction to Programming	3		CIS 213	Networking Using Windows Server	3	
MATH 114	College Algebra	3		CIS 225	Databases	3	
				ENGL 101	Composition I	3	
Total Credit Hours			15	Total Credit Hours			18
Third Semester			CR	Fourth Semester			CR
CIS 133	Networking Technologies III	3		CIS 134	Networking Technologies IV	3	
CIS 219	Advanced Server Technologies	3		CIS 215	Network Design & Virtualization	3	
CIS 220	Network Security I	3		CIS 230	Computer Forensics	3	
CSC 105	Microcomputer Software Application	3		CIS 235	Network Security II	3	
PSYC 101	General Psychology <i>or</i>	3		ENGL 108	Workplace Communications II	3	
PSYC 103	Human Relations in the Workplace						
Total Credit Hours			15	Total Credit Hours			15
Summer Semester			CR				
CIS 299	Internship	3					
Total Credit Hours			3				

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.

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