

Information Technology AAS

Network Systems Administration (Microsoft) – Concentration

Career & Technical Division

Program Description:

As a leading Microsoft IT Academy, Mountwest Community & Technical College offers the Network Systems Administration option to help prepare students for the Microsoft Certified Solutions Expert (MCSE) Certification examinations. The curriculum and course materials are designed by Microsoft, and the College's instructors are Microsoft Certified Solutions Experts (MCSE) with industry experience that take a personal interest in mentoring students through every step of the certification process.

Career Outlook:

The U.S. Department of Labor – Bureau of Labor Statistics states that computer-related jobs (IT) hold numerous positions within the Top-20 Fastest Growing Occupations in the country. Additionally, IT jobs are reported to have the highest earning of any of the occupations in the list.

Computer occupations are expected to be some of the fastest growing in the U.S. economy and will account for 5 out of the 20 fastest growing occupations over the next decade through 2015. Employment growth will be driven by the increasing reliance of businesses on information technology and the continuing importance of maintaining system and network security. In addition to high growth rates, computer and healthcare occupations combined will add more than 1.5 million new jobs. High growth rates among computer occupations reflect projected rapid growth in the computer and data processing industries.

Management, scientific and technical consulting services will grow very rapidly, by 55.4%, spurred by the increased use of new technology and the growing complexity of business.

Salary Forecast:

For the most current salary information please refer to the Bureau of Labor Statistics "Occupational Outlook Handbook" found at www.bls.gov/ooh/.

Program Admission Requirements:

The college adheres to an open admission policy which means applicants with a high school diploma or a GED are eligible for admission. Applicants with neither a high school diploma nor a GED may be admitted on a conditional basis.

Career Description:

The Microsoft Certified Solutions Expert (MCSE) credential is the premier certification for professionals who analyze the business requirements and design and implement the infrastructure for business solutions based on the Microsoft Windows platform and Microsoft Server software. It is one of the most widely recognized and sought after technical certifications in the IT industry demonstrating to employers, clients and colleagues that an individual has achieved expertise in the area in Information Technology.

Contact Information:

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Our mission is to prepare students for careers, civic responsibility and life-long learning.

Information Technology Major Code – CI20 • Network Systems Administration (Microsoft) Concentration Code – CI24

Name:			ID Number 942-	
CAPS SCORES:	MATH:	ENGLISH:	READ:	DOE:
COL 101 Faculty:				
Educational Counselor:				
Faculty Advisor:				

COURSE REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
ENL 111	Written Communication ¹		3				
IT 102	Advanced Computer Applications		3				
IT 120	Network Operating Systems		4				
IT 230	Network Communications ²		3				
	Approved Math Elective ³		3				
COM 112	Oral Communication ⁴		3				
ENL 231	Business and Technical Writing ¹		3				
IT 221	Advanced Operating Systems ^{5,6}		3				
IT 224	Fundamentals of Network Security ^{6,7}		3				
IT 210	Networking Administration I ^{8,9,10}		3				
IT 211	Networking Administration II ^{9,10}		3				
IT 216	Networking Administration III ^{9,10}		3				
IT 217	Networking Administration IV ^{9,10}		3				
IT 245	Information Storage and Management ^{10,11}		3				
IT 219	Networking Administration V ^{6,12,13}		3				
IT 222	Networking Administration VI ^{6,12,13}		3				
IT 223	Networking Administration VII ^{6,12,13}		3				
IT 255	Virtualization Technologies ^{6,11}		3				
IT 277	Management Information Systems ¹⁴		3				
IT 299	Information Technology Internship/Coop ¹⁵		3				

DEVELOPMENTAL COURSES REQUIRED

COURSE	REQUIREMENTS	SEM	HRS	GR	SUBSTITUTE/REPEAT CRS	SEM	CR
	Hours Required for Graduation: 61						

Earn A Degree Graduate Early (EDGE):

This program provides students the opportunity to receive credit for their high school EDGE courses.

¹ ENL 111 and ENL 231 have a prerequisite of placement in 100-level English, and placement in 100-level reading.

² IT 230 has a co-requisite of IT 120.

³ Choose from any 100-level or above.

⁴ COM 112 has a prerequisite of placement in 100-level reading.

⁵ IT 221 has a prerequisite of IT 120 or IT 131.

⁶ IT 219, IT 221, IT 222, IT 223, IT 224, and IT 255 are offered spring semester only.

⁷ IT 224 has a prerequisite of IT 101 or IT 102.

⁸ IT 210 has a prerequisite of IT 120 or permission.

⁹ Networking Administration classes IT 210, IT 211, IT 216 and IT 217 must be taken concurrently. These classes cannot be taken individually.

¹⁰ IT 210, IT 211, IT 216, IT 217, and IT 245 are offered fall semesters only.

¹¹ IT 245 and IT 255 have a prerequisite of IT 210 or permission.

¹² IT 219, IT 222, and IT 223 have a prerequisite of IT 217.

¹³ Networking Administration classes IT 219, IT 222 and IT 223 must be taken concurrently. These classes cannot be taken individually.

¹⁴ IT 277 is to be taken in the last semester or permission.

¹⁵ Permission of Program Coordinator/Dean is required in order to register for IT 299.

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