

Information Technology

Network Systems Administration (Microsoft)

Associate in Applied Science



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 IT Professional (MCITP) Certification examinations. The curriculum and course materials are designed by Microsoft, and the College's instructors are Microsoft Certified IT Professionals (MCITP) 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:

Although salaries vary a great deal, reflecting differences in skill, experience, and amount of education, the salaries for the job titles in the following table reflect HR Reported data as of January 2007 for Huntington, West Virginia.

Job Title	Average Salary	Job Title	Average Salary
LAN Support I	\$64,000	Network Administrator IV	\$63,000
LAN Support II	59,000	Network Administrator V	73,000
LAN Support III	64,000	Network Engineer I	80,000
Network Administrator I	70,000	Network Engineer II	70,000
Network Administrator II	62,000	Network Engineer III	83,000
Network Administrator III	75,000	Network Security Systems Manager	81,000

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 IT Professional (MCITP) 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:

Dr. Randall Jones • Corbly Hall, Room 314
Phone: 304-696-3059 or 1-866-N-ROLLED (1-866-676-5533)
E-mail: jonesr@mctc.edu

Patrick Smith • Corbly Hall, Room 309
Phone: 304-696-4633
E-mail: smith288@mctc.edu

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

FIRST YEAR

Fall Semester¹

ENL 111	Written Communication	3
IT 101/102	Fundamentals of Computers ¹ (EDGE).....	3
IT 120	Network Operating Systems ²	4
MAT	Approved Math Elective ¹¹	3

TOTAL CREDITS 13

Spring Semester

COM 112	Oral Communication.....	3
ENL 231	Technical Report Writing ³	3
IT 221	Advanced Operating Systems ⁴	3
MAT/SCI	Approved Math/Science Elective ¹¹	3
SS 210	Fundamentals of Sociology	3

TOTAL CREDITS 15

SECOND YEAR

Fall Semester

IT 210	Networking Administration I ^{5,6}	3
IT 211	Networking Administration II ⁵	3
IT 216	Networking Administration III ⁵	3
IT 217	Networking Administration IV ⁵	3
IT 230	Network Communications.....	3

TOTAL CREDITS 15

Spring Semester

IT 219	Networking Administration V ^{7,8}	3
IT 222	Networking Administration VI ^{7,8}	3
IT 223	Networking Administration VII ^{7,8}	3
IT 224	Fundamentals of Network Security.....	3
IT 277	Management Information Systems ¹⁰	3
IT 299	Information Technology Internship ⁹	3

TOTAL CREDITS 18

HOURS REQUIRED FOR GRADUATION: 61

Employment Opportunities:

- Network administrator
- Network engineer
- Systems support technician
- Network designer
- Network security systems designer

Earn A Degree Graduate Early (EDGE):

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

Contact Information:

Dr. Randall Jones • Corbly Hall, Room 314
 Phone: 304-696-3059 or 1-866-N-ROLLED (1-866-676-5533)
 E-mail: jonesr@mctc.edu

Patrick Smith • Corbly Hall, Room 309
 Phone: 304-696-4633
 E-mail: smith288@mctc.edu

1. Students are expected to have basic knowledge of computers including operating systems such as Windows XP or Vista and Microsoft Office XP or 2007 before entering this program. The student must register for IT 101 (EDGE) during his or her first semester or successfully pass a challenge exam for IT 101 (EDGE).
2. IT 120 has prerequisite of IT 101.
3. ENL 231 has a prerequisite of ENL 111 or COM 111 or permission.
4. IT 221 has a prerequisite of IT 120 or IT 131.
5. Networking Administration classes IT 210, IT 211, IT 216 and IT 217 must be taken concurrently. These classes cannot be taken individually.
6. IT 210 has a prerequisite of IT 120 or permission.
7. Networking Administration classes IT 219, IT 222 and IT 223 must be taken concurrently. These classes cannot be taken individually.
8. IT 219, IT 222, and IT 223 have a prerequisite of IT 217.
9. Permission of Program Coordinator/Dean is required in order to enroll in IT 299.
10. IT 277 to be taken in last semester or permission.
11. The following courses are approved as Math/Science electives: MAT 146, MAT 150, MAT 210, MAT 215, SCI 110, BIOL 210, SCI 220, and BIOL 257.