



**CURRICULUM GUIDE
2008-2009**

**MICROSOFT SYSTEMS ENGINEER
(NETWORK+, MCP, MCSE)**

**AS Degree
and
Certificate of Achievement Program**

For network professionals, Microsoft offers the Microsoft Certified Systems Engineer (MCSE) credential. MCSE's are qualified to effectively plan, implement, maintain, and support information systems in a wide range of computing environments using the Microsoft Windows Server Products and the Microsoft BackOffice®. Candidates for this degree option must have strong PC skills prior to enrolling in the program.

Requirements for AS Degree:

- a) Complete Major Field and Supporting Courses with a 2.0 grade point average.
- b) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.

Requirements for Certificate of Achievement:

- a) Complete Major Field courses as indicated below.
- b) Complete at least six units at Ohlone College.
- c) Maintain a 2.0 grade point average in Major Field courses.

MAJOR FIELD

CNET-146	Introduction to UNIX/Linux	3
CNET-150	Network Operating Systems	4
CNET-152	Data Communications	2
CNET-157	TCP/IP and Internetworking	3
CNET-160A	Microsoft Client Operating Systems	2
CNET-162A	Microsoft Server Operating Systems	2
CNET-162B	Windows Network Infrastructure Administration	2
CNET-164A	Microsoft Directory Services	2
CNET-164B	Designing Microsoft Windows Directory Services Infrastructure	2
CNET-165A	Designing a Secure Microsoft Windows Network	2
ENGL-156	Introduction to Report and Technical Writing OR	3
SPCH-115	Career Communication	<u>(3)</u>
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SUPPORTING COURSES (Minimum six units required)

Choose 1-4 units from the following: 1-4
CNET-195A1-4 Internship

Choose 2-5 units from the following: 2-5

CNET-101	Introduction to Computers and Information Technology
CNET-105	PC Hardware and Software
CNET-140A	Linux Installation and Configuration
CNET-140B	Linux System Administration
CNET-142A	Linux Networking
CNET-142B	Linux Security
CNET-147	UNIX/Linux Shell Scripting
CNET-149	PERL Programming
CNET-155A	Network Fundamentals
CNET-155B	Routing Protocols and Concepts
CNET-156A	LAN Switching and Wireless
CNET-156B	WAN Design and Support
CNET-158	Wireless Networks
CNET-165B	Microsoft Internet Security and Acceleration Server (ISA)
CNET-167A	Network Application Administration I – Email (Exchange 2003)
CNET-168A	Network Application Administration II – Database (SQL)
CNET-170	Network Security
CNET-182	Advanced Routing
CNET-183	Remote Access Networks
CNET-184	Advanced Switching
CNET-185	Optimizing Converged Networks
CS-102	Introduction to Computer Programming Using C++
CS-104A	Visual Basic.NET Programming
CS-170	Java Programming
CS-175	Script Technology for Web Development
CS-176	Introduction to PERL CGI Programming Development