



**CURRICULUM GUIDE  
2011-2012**

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

**Associate in Science in Microsoft Systems Engineer  
and  
Certificate of Achievement in Microsoft Systems Engineer**

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 Associate in Science Degree:**

- a) Complete Major Field and Supporting Courses with a grade of C or better.
- 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	(3)
		27

**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	3
CNET-105	PC Hardware and Software	4
CNET-140A	Linux Installation and Configuration	2
CNET-140B	Linux System Administration	2
CNET-142A	Linux Networking	2
CNET-142B	Linux Security	2
CNET-147	UNIX/Linux Shell Scripting	4
CNET-149	PERL Programming	4
CNET-155A	Network Fundamentals	4
CNET-155B	Routing Protocols and Concepts	4
CNET-156A	LAN Switching and Wireless	2
CNET-156B	WAN Design and Support	2
CNET-158	Wireless Networks	4
CNET-165B	Microsoft Internet Security and Acceleration Server (ISA)	2
CNET-167A	Network Application Administration I – Email (Exchange 2003)	2
CNET-168A	Network Application Administration II – Database (SQL)	2
CNET-170	Network Security	4
CNET-182	Advanced Routing	3
CNET-183	Implementing Cisco Secure WANs CCNP II	3
CNET-184	Advanced Switching	3
CNET-185	Optimizing Converged Networks	3
CS-102	Introduction to Computer Programming Using C++	4
CS-104A	Introduction to .NET Programming	4
CS-170	Java Programming	4
CS-175	From JavaScript to AJAX	4
CS-176	Introduction to PERL CGI Programming Development	4

Total Required Units: 33