

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: Network Applications
CODE NO. : CSN220 **SEMESTER:** 10W
PROGRAM: Computer Network Technician
AUTHOR: Cindy Trainor
DATE: Dec, 2009 **PREVIOUS OUTLINE DATED:** Dec, 2008
APPROVED: Brian Punch

CHAIR

DATE

TOTAL CREDITS: 4
PREREQUISITE(S): CSN100
HOURS/WEEK: 4 Hours / 16 Weeks

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For additional information, please contact Brian Punch, Chair,
School of Natural Environment/Outdoor Studies & Technology Programs
(705) 759-2554, Ext. 2681

I. COURSE DESCRIPTION:

This course will develop the student's ability to install, configure and manage a WINDOWS 2003 SERVER network in an internet/intranet environment. It will focus on the installation, use, and support of various TCP/IP-based servers, and groupware. Network installations of office suites will be performed. Thin client technology will be discussed and implemented. Desktop management systems will be installed and used to manage system resources. Students will also explore protocols embedded in WINDOWS 2003 SERVER for managing server health.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. ***Install and configure various TCP/IP-based servers***
Potential Elements of the Performance:
 - Install software such as Microsoft Internet Information Server and Apache Web Server to manage a Web site.
 - Configure and manage a File Transfer Protocol Server.
 - Configure and maintain a Domain Name Server

This learning outcome will constitute approximately 25 % of the course.
2. ***Support groupware applications in the Windows 2003 Server environment.***
Potential Elements of the Performance:
 - Install, configure and use Microsoft Exchange.
 - Install, configure and use Microsoft Outlook client.
 - Discuss the various components of the above applications.

This learning outcome will constitute approximately 30 % of the course.
3. ***Investigate thin client server and client technology***
Potential Elements of the Performance:
 - Plan for, and install, Terminal server.
 - Create users and groups in Terminal server.
 - Install terminal services client software.
 - Install applications to Terminal server.
 - Administering the desktop and server.

This learning outcome will constitute approximately 15 % of the course.
4. ***Network installation and support contemporary office software suites***
Potential Elements of the Performance:
 - Install and configure Microsoft Office in a network environment.
 - Study the use of the suite in sharing data and collaboration.

This learning outcome will constitute approximately 5 % of the course.
5. ***Utilize a desktop management system to manage network resources***
Potential Elements of the Performance:

- Discuss the characteristics of network management systems.
- Install and use Cisco Works.
- Install and use Microsoft SMS management software.

This learning outcome will constitute approximately 20 % of the course.

6. ***Examine the protocol used by devices in WINDOWS 2003 SERVER to report their status to the server.***

Potential Elements of the Performance:

- Install the Simple Network Message Protocol (SNMP) service.
- Configure SNMP to send and receive traps.

This learning outcome will constitute approximately 5 % of the course.

III. TOPICS:

1. TCP/IP-based servers
2. Groupware applications
3. Thin client servers and clients
4. Network installation and support of office suites
5. Desktop management systems
6. Simple Network Message Protocol

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

USB 2.0, IDE External Hard Drive Enclosure with Hard Drive

Or

USB 2.0 to Hard Drive Adapter and Hard Drive

Text: MSCE Guide to Microsoft Exchange Server 2003 Administration

ISBN: 1423902661

V. EVALUATION PROCESS/GRADING SYSTEM:

Tests	40%
Quizzes	20%
Assignments and Labs	40%

NOTE: It is necessary to pass both the theory and the lab part of this course. For example, it is not possible to pass the course if a student has a failing average in the written tests but is passing the lab portion, (or vice versa). The following semester grades will be assigned to students:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade "C", (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations. Announcements, news, the academic calendar of events, class cancellations, your learning management system (LMS), and much more are also accessible through the student portal. Go to <https://my.saultcollege.ca>.

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. *It is the departmental policy that once the classroom door has been enclosed, the learning process has begun. Late arrivers will not be granted admission to the room.*

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *March* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.