

Linux Operating Systems I

Information and Communications Technology

Course Number: CST8207	Contribution to Program: Vocational Core	Normative Hours: 75
Applicable Program(s): 0150X01FWO Computer Systems Technician 0150X03FWO Computer Systems Technician 0155X01FWO Computer Systems Technology - Networking 0156X01FWO Computer Systems Technology - Security	AAL: 1 1 1 1	Approval Date: 10/01/2012
Prepared by: Ian D. Allen Professor		Approved by: Andrew Pridham Academic Chair, ICT
Co-Requisites N/A		Approved for Academic Year: 2011-2012
Pre-Requisites N/A		

COURSE DESCRIPTION

This course introduces students to the basic concepts and core functions of the Linux operating system in a stand-alone environment. Students learn basic command structures and capabilities of the Linux operating system, along with the skills required to perform common basic system configuration and management tasks. Typical tasks covered include, but are not limited to installing the operating system, working the command line shell, managing/mounting/creating file systems, file permissions overview, managing and troubleshooting the boot process, task automation, software management and customizing the operating system environment.

RELATIONSHIP TO VOCATIONAL LEARNING OUTCOMES

This course contributes to your program by helping you achieve the following Vocational Learning Outcomes:

Computer Systems Technician 0150X01FWO

- 1 Analyze and resolve information technology problems through the application of systematic approaches and diagnostic tools.(T,A)
- 2 Support the implementation and administration of computer systems. (T,A)
- 4 Install, configure, troubleshoot, maintain, and upgrade components of computer systems. (T,A)
- 6 Use a variety of scripting tools and languages to automate routine tasks. (T)
- 7 Follow, monitor, and document data storage procedures designed to ensure the integrity of information. (T,A)
- 10 Conform to workplace expectations found in information technology (IT) environments. (T)

Computer Systems Technician 0150X03FWO

Computer Systems Technology - Networking 0155X01FWO

Computer Systems Technology - Security 0156X01FWO

T: Teach A: Assess CP: Culminating Performance

ESSENTIAL EMPLOYABILITY SKILLS

The course contributes to your program by helping you achieve the following Essential Employability Skills:

- 2 Respond to written, spoken or visual messages in a manner that ensures effective communication.(T,A)
- 4 Apply a systematic approach to solve problems.(T,A)
- 5 Use a variety of thinking skills to anticipate and solve problems.(T,A)
- 6 Locate, select, organize and document information using appropriate technology and information systems.(T,A)
- 7 Analyze, evaluate and apply relevant information from a variety of sources.(T,A)

11 Take responsibility for one's own actions, decisions and consequences.(A)

T: Teach A: Assess CP: Culminating Performance

COURSE LEARNING REQUIREMENTS/EMBEDDED KNOWLEDGE AND SKILLS

COURSE LEARNING REQUIREMENTS When you have earned credit for this course, you will have demonstrated the ability to:	EMBEDDED KNOWLEDGE AND SKILLS
1. Install and configure GNU/Linux.	<ul style="list-style-type: none"> 1 Confirm correct functioning of hardware before and during installation. Identify and correct basic hardware problems during installation. 1 Attach installation media and use it to install and configure a GNU/Linux operating system. 1 Follow correct shut-down procedures for a GNU/Linux system (to prevent data loss).
2. Use GNU/Linux command-line (shell) commands related to systems administration.	<ul style="list-style-type: none"> 1 Use on-line manual ("man") pages to learn the syntax of commands. Write correct command lines based on documentation. 1 Identify the steps involved in parsing the GNU/Linux command line (shell). 1 Use command-line I/O redirection, including pipes. Avoid overwriting files. 1 Learn basic vi (vim) editing commands that can edit a configuration file.
3. Identify, create, and manage different types of partitions and file systems under GNU/Linux.	<ul style="list-style-type: none"> 1 Identify, create, and modify partitions within GNU/Linux. 1 Identify, create, and modify file systems within GNU/Linux, with emphasis on ext2/ext3/ext4 and FAT file systems. 1 Identify the basic data structures that make up a GNU/Linux file system. Know how these structures affect file system recovery and enable hard and soft links. 1 Use absolute and relative path names correctly.
4. Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment	<ul style="list-style-type: none"> 1 Create and manage user accounts in the GNU/Linux environment. 1 Create and modify file and directory access control permissions to implement specified security and sharing.
5. Download, install, and configure software in a GNU/Linux-based environment.	<ul style="list-style-type: none"> 1 Download, install, and configure software in a GNU/Linux-based environment.
6. Manage the boot process under GNU/Linux.	<ul style="list-style-type: none"> 1 Modify the GNU/Linux boot/startup process. Set password security; adjust time-outs; enable single-user mode; add new boot menu entries.

LEARNING RESOURCES

Required Equipment for Laboratory work:

You must have this equipment for every laboratory period, including the first. Pick up your CST8207 hardware kit from the campus store before your first lab.

- 1 A 500GB (or larger) hard disk and ESATA drive enclosure
 - o this disk and enclosure are **already purchased** for you with your incidental fees
 - o you can get the CST8207 hardware kit from the Algonquin New Technology Store by showing your timetable and ID card
- 1 A blank CD-R or CD-RW (for the first lab)
- 1 A binder for labs & lab notes

Recommended Textbook

The recommended textbook is a reliable, comprehensive source of accurate GNU/Linux information. Motivated students may choose instead to discover and use free Internet resources instead of a purchased textbook.

Textbook Package (ISBN: 0-132-37382-3) contains:

- 1 *A Practical Guide to Fedora and Red Hat Enterprise Linux*, 5th ed., by Mark Sobell, Prentice Hall ISBN 0-13-706088-2
- 1 *Linux Phrasebook*, by Scott Granneman, Prentice Hall ISBN 0-672-32838-0

N.B.: This textbook package deal is ONLY available in the Algonquin Bookstore.

Optional Textbook:

These optional textbook resources are excellent for administering a GNU/Linux system. Motivated students may choose instead to discover and use free Internet resources instead of a purchased textbook.

- 1 *Linux Administration Handbook*, 2nd ed., by Evi Nemeth et al, Prentice Hall, ISBN 0-13-148004-9
- 1 *Linux Administration, A Beginner's Guide*, 5th ed., by Wale Soyinka, McGraw Hill, ISBN 9780071545884
- 1 *Linux in a Nutshell*, 5th ed., Jessica Perry Hekman, O'Reilly, ISBN 0-596-00930-5

LEARNING ACTIVITIES

During this course, you are likely to experience the following learning activities:

Reading and Doing

The principal way to learn the course material is by reading about the course topics, either in the textbook or using Internet resources, and then doing lab and homework exercises related to the material. Course topics will be outlined in the course notes.

Lectures

Lectures will present highlights from the theoretical material of the course. Students are expected to attend all of the lectures. Students are encouraged to ask questions during lectures and to consult with the professors on topics that they do not clearly understand.

While the textbook and lectures constitute the prime source of information, students are expected to be proactive in following up reading and Internet references that are provided. The material in this course is constantly subject to change, so an ability to ferret out and exchange new information is a valuable asset.

Labs and Homework Exercises

Labs are hands-on opportunities to experiment with the theoretical material that you have learned through reading and lectures. Laboratory assignments will be closely integrated with the theoretical material. Students are expected to perform initial **reading**, analysis, and design **before** their scheduled lab, to take advantage of the limited lab time. You will not have enough time to do all the reading and the lab work in the same lab period.

The students' ability to successfully complete the assigned exercises will directly correlate with their level of success on tests and the final exam. Tests and exams are based on work already done in the lab.

NOTE: Knowing the specific answers to lab questions is never as important as knowing how to generate the answers. Copying answers will not enable you to pass the tests and exams. You need to know **how** things work!

Consultation

At the beginning of the course you will be told how to arrange consultation times (office hours) with your instructors. Some consultation may be done using online resources, rather than in-person office hours.

Samples of learning activities include:

- Practical and reading assignments (book and online learning materials).
- Hands-on practical laboratory work, which may be completed as homework.
- In-class quizzes that test your current knowledge and lab work.
- Mid-term tests that are practice for the final exam.

EVALUATION/EARNING CREDIT

The following will provide evidence of your learning achievements:	This activity validates the following Course Learning Requirements and/or Essential Employability Skills:
Quizzes (in-class or online) - 10%	<ul style="list-style-type: none"> 1 Use GNU/Linux command-line (shell) commands related to systems administration. - [CLR 2] 1 Install and configure GNU/Linux. - [CLR 1] 1 Identify, create, and manage different types of partitions and file systems under GNU/Linux. - [CLR 3] 1 Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment - [CLR 4] 1 Download, install, and configure software in a GNU/Linux-based environment. - [CLR 5] 1 Manage the boot process under GNU/Linux. - [CLR 6] 1 Respond to written, spoken or visual messages in a manner that

	<ul style="list-style-type: none"> ensures effective communication. - [EES 2] 1 Apply a systematic approach to solve problems. - [EES 4] 1 Use a variety of thinking skills to anticipate and solve problems. - [EES 5] 1 Take responsibility for one's own actions, decisions and consequences. - [EES 11]
<p>Lab Evaluation - 15%</p> <p>Late assignments may or may not be marked. To earn full marks, submit on time.</p>	<ul style="list-style-type: none"> 1 Use GNU/Linux command-line (shell) commands related to systems administration. - [CLR 2] 1 Install and configure GNU/Linux. - [CLR 1] 1 Identify, create, and manage different types of partitions and file systems under GNU/Linux. - [CLR 3] 1 Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment - [CLR 4] 1 Download, install, and configure software in a GNU/Linux-based environment. - [CLR 5] 1 Manage the boot process under GNU/Linux. - [CLR 6] 1 Respond to written, spoken or visual messages in a manner that ensures effective communication. - [EES 2] 1 Apply a systematic approach to solve problems. - [EES 4] 1 Use a variety of thinking skills to anticipate and solve problems. - [EES 5] 1 Locate, select, organize and document information using appropriate technology and information systems. - [EES 6] 1 Analyze, evaluate and apply relevant information from a variety of sources. - [EES 7] 1 Take responsibility for one's own actions, decisions and consequences. - [EES 11]
<p>First Midterm Test - 15%</p>	<ul style="list-style-type: none"> 1 Use GNU/Linux command-line (shell) commands related to systems administration. - [CLR 2] 1 Install and configure GNU/Linux. - [CLR 1] 1 Identify, create, and manage different types of partitions and file systems under GNU/Linux. - [CLR 3] 1 Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment - [CLR 4] 1 Download, install, and configure software in a GNU/Linux-based environment. - [CLR 5] 1 Manage the boot process under GNU/Linux. - [CLR 6] 1 Apply a systematic approach to solve problems. - [EES 4] 1 Use a variety of thinking skills to anticipate and solve problems. - [EES 5] 1 Respond to written, spoken or visual messages in a manner that ensures effective communication. - [EES 2] 1 Take responsibility for one's own actions, decisions and consequences. - [EES 11]
<p>Second Midterm test - 25%</p>	<ul style="list-style-type: none"> 1 Install and configure GNU/Linux. - [CLR 1] 1 Use GNU/Linux command-line (shell) commands related to systems administration. - [CLR 2] 1 Identify, create, and manage different types of partitions and file systems under GNU/Linux. - [CLR 3] 1 Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment - [CLR 4] 1 Download, install, and configure software in a GNU/Linux-based

	<p>environment. - [CLR 5]</p> <ul style="list-style-type: none"> 1 Manage the boot process under GNU/Linux. - [CLR 6] 1 Respond to written, spoken or visual messages in a manner that ensures effective communication. - [EES 2] 1 Apply a systematic approach to solve problems. - [EES 4] 1 Use a variety of thinking skills to anticipate and solve problems. - [EES 5] 1 Take responsibility for one's own actions, decisions and consequences. - [EES 11]
<p>Final Exam - 35%</p>	<ul style="list-style-type: none"> 1 Use GNU/Linux command-line (shell) commands related to systems administration. - [CLR 2] 1 Install and configure GNU/Linux. - [CLR 1] 1 Identify, create, and manage different types of partitions and file systems under GNU/Linux. - [CLR 3] 1 Create and manage user accounts, groups, and permissions in a GNU/Linux-based environment - [CLR 4] 1 Download, install, and configure software in a GNU/Linux-based environment. - [CLR 5] 1 Manage the boot process under GNU/Linux. - [CLR 6] 1 Apply a systematic approach to solve problems. - [EES 4] 1 Use a variety of thinking skills to anticipate and solve problems. - [EES 5] 1 Respond to written, spoken or visual messages in a manner that ensures effective communication. - [EES 2] 1 Take responsibility for one's own actions, decisions and consequences. - [EES 11]

COLLEGE GRADING NUMERICAL EQUIVALENT TABLE

Final Grade	Mark Equivalent	Numeric Value	Final Grade	Mark Equivalent	Numeric Value
A+	90-100%	4.0	C+	67-69%	2.3
A	85-89%	3.8	C	63-66%	2.0
A-	80-84%	3.6	C-	60-62%	1.7
B+	77-79%	3.3	D+	57-59%	1.4
B	73-76%	3.0	D	53-56%	1.2
B-	70-72%	2.7	D-	50-52%	1.0
			F	0-49%	0
			FSP	0	0

PRIOR LEARNING ASSESSMENT AND RECOGNITION

Students who wish to apply for prior learning assessment and recognition (PLAR) need to demonstrate competency at a post-secondary level in all of the course learning requirements outlined above. Evidence of learning achievement for PLAR candidates includes:

- 1 Challenge Exam
- 1 Performance Test

RELATED INFORMATION

The following information is course-specific:

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The following information is program-specific:

0150X01FWO - Computer Systems Technician

Theory Evaluation:

Theory evaluation is conducted by the Professor, and submitted to the final grade roll-up.

- 1 Theory attendance, in-class quiz and tests may be a part of the course requirements, will be identified by your professor, and is unique to each individual course.
- 1 All students are encouraged to prepare before class, attend class regularly, and actively participate while in class to enrich their learning experience.
- 1 *Policy AA42 outlines the requirements for posting class notes or information to Blackboard. Any such information made available by professors is done solely to assist students in understanding the material presented **and is not intended to replace attendance to theory class.***
- 1 *Any and all information presented in class is considered testable material, be it presented verbally, written on the whiteboard, on-screen, or in a document - whether students were in attendance or not.*
- 1 *It remains the student's responsibility to attend class. listen and take adequate notes, as needed.*

Lab Evaluation:

Lab evaluation is conducted by the Lab Professor, and submitted to the final grade roll-up. In this program, the following criteria may be required in order to obtain a non-zero lab mark:

- 1 Satisfactory attendance and participation in the lab;
 - o **N.B:** *lab attendance requirements will be identified by your professor, and is specific to each individual course.*
- 1 Satisfactory workmanship and behavior in the lab;
- 1 Satisfactory adherence to rules prescribed for the lab facility;
- 1 Being properly equipped & prepared for lab work prior to attending the lab;
 - o **N.B.:** *coming to your lab period **without** the required equipment/tools or being prepared may result in you being marked as absent, at your professor's discretion.*
- 1 Timely completion of individual labs and required work therein on the student's assigned lab computer, as prescribed by lab handouts.
 - o *Late submission or extended deadlines may be afforded, along with associated penalties - these will be identified by your professor, and are specific to each individual course.*
 - o *Work done outside of the lab environment may not be counted, unless indicated otherwise by your lab teacher.*

The lab Professor reserves the right to suspend or deny access to the lab at any time if the above criteria are not being met. No allowances are made in the course for students whose access in the lab are suspended or denied.

Final Examination

All students are expected to write the final exam. There are no provisions for "making up" a missed final exam.

If, as a result of being off-track in your program or some unforeseen circumstance, you note that there is a scheduling conflict in your final exam schedule, it is your responsibility to alert the your program coordinator no later than one week before final exams start, to allow for any special arrangements.

0150X03FWO - Computer Systems Technician

Theory Evaluation:

Theory evaluation is conducted by the Professor, and submitted to the final grade roll-up.

- 1 Theory attendance, in-class quiz and tests may be a part of the course requirements, will be identified by your professor, and is unique to each individual course.
- 1 All students are encouraged to prepare before class, attend class regularly, and actively participate while in class to enrich their learning experience.
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0155X01FWO - Computer Systems Technology - Networking**Theory Evaluation:**

Theory evaluation is conducted by the Professor, and submitted to the final grade roll-up.

- 1 Theory attendance, in-class quiz and tests may be a part of the course requirements, will be identified by your professor, and is unique to each individual course.
- 1 All students are encouraged to prepare before class, attend class regularly, and actively participate while in class to enrich their learning experience.
- 1 *It is important to note that there is NO REQUIREMENT to post any class notes or information to Blackboard. Any such information made available by professors is done solely to assist students in understanding the material presented and is not intended to replace attendance to theory class.*
- 1 *Any and all information presented in class is considered testable material, be it presented verbally, written on the whiteboard, on-screen, or in a document - whether students were in attendance or not.*
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- 1 Satisfactory workmanship and behavior in the lab;
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0156X01FWO - Computer Systems Technology - Security**Theory Evaluation:**

Theory evaluation is conducted by the Professor, and submitted to the final grade roll-up.

- 1 Theory attendance, in-class quiz and tests may be a part of the course requirements, will be identified by your professor, and is unique to each individual course.
- 1 All students are encouraged to prepare before class, attend class regularly, and actively participate while in class to enrich their learning experience.
- 1 Policy AA42 outlines the requirements for posting class notes or information to Blackboard. Any such information made available by professors is done solely to assist students in understanding the material presented and is not intended to replace attendance to theory class.
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The following information is school/department-specific:

STUDENT ACADEMIC RESPONSIBILITIES

Each student is responsible for:

- 1 Knowing the due dates for marked out-of-class assignments.
- 1 Attending all classes and knowing the dates of in-class marked assignments and exercises.
- 1 Maintaining a folder of all work done in the course during the semester for validation claims in cases of disagreement with faculty.
- 1 Keeping both paper and electronic copies of all assignments, marked and unmarked, in case papers are lost or go missing.
- 1 Regularly checking both Blackboard announcements as well as one's Algonquin e-mail account for important messages from both professors and college administration.
- 1 Participating in on-line and classroom exercises and activities as required.
- 1 Retaining course outlines for possible future use to support applications for transfer of credit to other educational institutions.

Harassment/Discrimination/Violence will not be tolerated. Any form of harassment (sexual, racial, gender or disability-related), discrimination (direct or indirect), or violence, whether involving a professor and a student or amongst students, will not be tolerated on the college premises. Action taken will start with a formal warning and proceed to the full disciplinary actions as outlined in Algonquin College Policies - HR22 and E27.

Harassment means one or a series of vexatious comment(s) (whether done verbally or through electronic means), or conduct related to one or more of the prohibited grounds that is known or ought reasonably to be known to be unwelcome/unwanted, offensive, intimidating, derogatory or hostile. This may include, but is not limited to: gestures, remarks, jokes, taunting, innuendo, display of offensive materials, offensive graffiti, threats, verbal or physical assault, stalking, slurs, shunning or exclusion related to the prohibited grounds.

For further information, a copy of the official policy statement can be obtained from the Student Association.

Violation of the Copyright Act

General – The Copyright Act makes it an offence to reproduce or distribute, in whatever format, any part of a publication without the prior written permission of the publisher. For complete details, see the Government of Canada website at <http://laws.justice.gc.ca/en/C-42> . Make sure you give it due consideration, before deciding not to purchase a textbook or material required for your course.

Software Piracy - The Copyright Act has been updated to include software products. Be sure to carefully read the licensing agreement of any product you purchase or download, and understand the terms and conditions covering its use, installation and distribution (where applicable). Any infringement of licensing agreement makes you liable under the law.

Disruptive Behaviour is any conduct, or threatened conduct, that is disruptive to the learning process or that interferes with the well being of other members of the College community. It will not be tolerated. Members of the College community, both students and staff, have the right to learn and work in a secure and productive environment. The College will make every effort to protect that right. Incidents of disruptive behaviour must be reported in writing to the departmental Chair as quickly as possible. The Chair will hold a hearing to review available information and determine any sanctions that will be imposed. Disciplinary hearings can result in penalties ranging from a written warning to expulsion.

For further details, consult the Algonquin College Policies E39, E27 and A16 in your Instaguide.

The following information is College-wide:

Email

Algonquin College provides all full-time students with an e-mail account. This is the address that will be used when the College, your professors, or your fellow students communicate important information about your program or course events. It is your responsibility to ensure that you know how to send and receive e-mail using your Algonquin account and to check it regularly.

Centre for Students with Disabilities (CSD)

If you are a student with a disability, it is strongly recommended that you identify your needs to the professor and the Centre for Students with Disabilities (CSD) by the end of the first month of the semester in order that any necessary support services can be arranged for you.

Academic Integrity*

Adherence to acceptable standards of academic honesty is an important aspect of the learning process at Algonquin College. Academic work submitted by a student is evaluated on the assumption that the work presented by the student is his or her own, unless designated otherwise. For

further details consult Algonquin College Policies AA 18(http://www2.algonquincollege.com/directives/files/2011/01/AA-18-Academic-Dishonesty-and-Discipline.PEC_Approved-Oct.27.2010.pdf) and E43 (<http://www2.algonquincollege.com/directives/files/2011/05/E431.pdf>)

Course Assessments*

It is Algonquin College's policy to give students the opportunity to complete a course assessment survey in each course that they take which solicits their views regarding the curriculum, the professor and the facilities. For further details consult Algonquin College Directive E38 (<http://www2.algonquincollege.com/directives/files/2010/09/E38.pdf>)

Use of Electronic Devices*

With the proliferation of small, personal electronic devices used for communications and data storage, Algonquin College believes there is a need to address their use during classes and examinations. During classes, the use of such devices is disruptive and disrespectful to others. During examinations, the use of such devices may facilitate cheating. For further details consult Algonquin College Directive E39 (<http://www2.algonquincollege.com/directives/files/2010/09/E39.pdf>)

Transfer of Credit

Students, it is your responsibility to retain course outlines for possible future use to support applications for transfer of credit to other educational institutions.

* College policies (previously called directives) are under review and redesign. The term *directives* is being retired. As such, the policy classification nomenclature is in transition. Students, it is your responsibility to refer to the Algonquin College Directives/Policies website for the most current information available at: (<http://www2.algonquincollege.com/directives/>)