Course Outline

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| Faculty of Arts, Business and Social Sciences  Department of  Introduction to Linux  420-995-VA | | Introduction to Linux | | | | 420-995-VA | |
| Insert Prerequisites/Corequisites | | | | 21002 | |
| Optional text box | | | | Winter 2022 | |
| 2-4-2 | | 30 | | | 15 |
| Teacher | Elzahraa Hasan | | | | | | |
| Office |  | | Phone / Email | | Mio | | |
| Office hours |  | | | | | | |
| Weekly Course Schedule  (Day and time) |  | | | | | | |

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| General Course Description (and specific course description if applicable) |
| Students will understand that windows, UNIX, and Linux represent the operating system technologyunderlying many of the services of the Internet. This subject introduces students to Windows, Unix, Linuxand the Internet. Students will learn the core utilities to work productively in a Windows/Linuxenvironment. |
| Required reading material |
| VirtualBox, Linux Ubuntu |
| Other Expenses (if applicable) |
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| Course’s role in the program This course provides an overview of personal computer operating systems, including installation, configuration, file  management, memory and storage management, peripheral device control, and utility use. Students will benefit from  the fundamental concepts learned in this course as they advance through the program.  The course has 2 competencies:   00Q1: Install and manage computers (Comprehensive).   00SH: Adapt to information technologies (Introduced). This will later be developed and finalized in the Internship |
| As stated in the Course Framework. |

# Specific Course Objectives, Learning Activities and Assessments

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| week no. | Date | Learning Activities | Assessments (weight of Summative worth 10% and more), when applicable |
| 1 | 25/5/2022 | * Introduction to operating systems. * Application of operating systems. * Embedded operating systems. * Types of cloud operating systems. * How to install Linux | Lab1: How to install Linux |
| 2 | 27/5/2022 | * Interactive Operating Systems * Operating system UI’s. * Linux structure * Basic Linux file manipulation | Lab2: basic file/directory configurations  Assignment 1: 6% |
| 3 | 30/5/2022 | * Managing the files * Managing groups * File permissions * Group permissions | Lab3: file permissions |
| 4 | 1/6/2022 | * Linux languages and API | Lab 4: execute C and java codes  Assignment 2: 8% |
| 5 | 6/6/2022 | * revision |  |
| 6 | 7/6/2022 | * Midterm | 30% |
| 7 | 8/6/2022 | * Memory management, regular expressions, sed, awk. | Memory management exercises  Assignment 3: 8% |
| 8 | 10/6/2022 | * Hard copy soft copy * Mounting Un-mounting | Lab8: soft link/hard link |
| 9 | 13/6/2022 | * File compression * Directory compression * Kill process | Lab 9: file compression/process management  Assignment 4: 8% |
| 10 | 14/6/2022 | * Redirection * Partitioning of Linux * Hard disk types useful commands | Lab 9: redirection output and error |
| 11 | 15/6/2022 | CGI | Lab 10:How to write CGI |
| 12 | 20/6/2022 | Revision | Assignment 5: 10% |
| 13 | 23/6/2022 | Final exam | 30% |

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| Learning Integration Assessment (LIA) |
| Each course includes a Learning Integration Assessment (LIA) that attests to students’ achievement of the course-level learning outcome that is the main knowledge, skills, and attitudes to be developed. The LIA for this course is the following: |
| As stated in the Course Framework. |
| Evaluation Criteria for The Learning Integration Assessment |
| |  | | --- | | Weight of Grade (%) | |  |   As stated in the Course Framework, what are the general evaluation criteria that will be used to assess the LIA. This is not a marking rubric. |
| Student Proficiency in the Language of Instruction (SPLI) |
| Student proficiency in the language of instruction is the ability to write, read, speak, and listen in order to communicate effectively at the college level. SPLI may also require discipline-specific vocabulary, documentation, and communication skills; assessment of language skills must account for a minimum of 10% of any take-home written assignment or oral presentation in which English is the language of expression. |
| In this course, you will be assessed for SPLI in the following assessments:  As stated in the Course Framework. |

# General Course Objectives and Learning Outcomes

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| Competency(ies) included in this course | Insert competency code and competency title, as found in the Course Framework.  Insert competency code and competency title, as found in the Course Framework.  Insert competency code and competency title, as found in the Course Framework. |
| Course Learning Outcome | As stated in the Course Framework, what should students know and be able to do by the end of the course. |
| Key Learning Outcomes | As stated in the Course Framework, what are the main knowledge, skills and attitudes that students will learn and practice in the course (5 to 7). |
| Transversal Learning (Skills and Attitudes) | As stated in the Course Framework, what are the transversal skills, that is the essential skills and attitudes required of students in the program. Keep in mind that these transversal competencies cannot be assessed or expected unless they are implicitly or explicitly taught. |
| Pedagogical approaches and teaching methods | As stated in the Course Framework, what are the main knowledge, skills and attitudes that students will learn and practice in the course (5 to 7). |

# Other Important Information

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| Rule for the notification regarding minor assessments |
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| Pedagogical Instructions for this Course including Late submission of assignments |
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| Special conditions for passing the course (if any) |
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| Classroom Management Rules including lateness to class |
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| Exceptions to the IPESA applicable to this course |
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| Other College Policies |
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# Familiarity with and adherence to vanier course level policies

It is the student's responsibility to be familiar with and adhere to all Vanier College Policies. A summary of the course-level policies that apply in this and all other Vanier courses can be found under “Course-Level Policies” in Important Vanier Links on Omnivox, or by following this link: <http://www.vaniercollege.qc.ca/psi/course-level-policies/> . Complete policies can be found on the Vanier College website, under [Policies](http://www.vaniercollege.qc.ca/bylaws-policies-procedures/category/policies/).

 Les étudiants ont la responsabilité de prendre connaissance des politiques du Cégep Vanier et d’y adhérer. Un résumé des politiques qui s’appliquent à ce cours comme à tous les autres cours de Vanier se trouve sur Omnivox sous la rubrique « Course-Level Policies » dans la section Important Vanier Links, ou au lien suivant :  <https://www.vaniercollege.qc.ca/psi/course-level-policies/>. Les politiques complètes se trouvent sur le site web du Cégep Vanier, dans la section [Policies](http://www.vaniercollege.qc.ca/bylaws-policies-procedures/category/policies/).

# Appendix 1 – Excerpt of the Ministerial Devis