

LINUX Essentials Template

IST-190

3 Credits 06/06/2020 to 06/06/2030 Modified 01/09/2023

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(https://www.gvltec.edu/academics_learning/business-computer/computer_technology/index.html)

Description

3-0-3 Offered Spring and Summer Semesters Prerequisite: CPT 257, IST 220 This course will provide students with the fundamental knowledge and concepts of the LINUX operating system, including command line functions, file systems, user and group administration, process management, text editors, and network applications.

Requisites

Prerequisites: CPT 257 and IST 220

Materials

The CPT Department at Greenville Technical College is a member of the Red Hat Academy. The curriculum content for IST 190 will be delivered online via the Red Hat Academy Learning Portal. Students in IST 190 will be given access to the online curriculum. Internet access is required for a student in IST 190 to complete this course. There are no other required textbooks.

NOTE: Students in traditional classes must access Blackboard for course-related information. Students in hybrid and online classes will access their online content through Blackboard.

Additional Materials, Supplies, Equipment, and Technology (i.e. Webcams):

1. Access to an Internet-capable computer system.
2. Computer with Webcam if taking hybrid or online class.
3. NOTE: Students in traditional classes must access Blackboard for course related information. Students in hybrid and online classes will access their online content through Blackboard.

Course Objectives

Course Outcomes:

Students who successfully complete this course will have demonstrated the skills required to accomplish the following objectives with a minimum competence level of 70 percent.

1. Navigate and manage the Linux file system.
2. Administer Linux users and groups.
3. Manage Linux file ownerships and permissions.
4. Execute commands in the Bash shell.
5. Manage a Linux server using basic administrative skills.

The outcomes of the IST 190 course are intended to meet the Compute Technology program level student learning outcomes.

Revised 7/17/2015

Program Learning Outcomes

Program Student Learning Outcomes:

Upon successful completion of the Computer Technology Degree students will be able to:

1. Install and configure an array of computing devices and software.
2. Analyze and describe technological needs using appropriate industry terminology.
3. Build, maintain, and troubleshoot secure applications, systems, or networks using modern resources and tools.
4. Utilize effective customer support and problem resolution skills.
5. Apply techniques and skills learned, appropriate to the discipline, to develop systems solutions.
6. Identify the local and global impacts of computing on individuals, organizations, and society.

Core Competencies

Assessment of Student Learning: Greenville Technical College is committed to continuous improvement of teaching and learning. Tests, assignments, presentations, and/or projects required in this course may be shared with college faculty and used for assessment purposes.

Program assess learning outcomes specific to their program and college-wide outcomes referred to as core competencies.

Core competencies are a set of skills, knowledge, and behaviors identified as critical to the success of students graduating from degree and diploma programs at GTC. Each year, the College collects data on student learning of the core competencies and uses data to make improvements in our programs.

There are four (4) core competencies that are assessed.

Written Communication

Students will demonstrate effective written communication skills to convey information, ideas, or opinions.

Oral Communication

Students will demonstrate effective oral communication skills to convey information, ideas, or opinions.

Critical Thinking

Students will demonstrate effective reasoning, problem solving, or quantitative skills to develop an opinion or conclusion.

Critical thinking includes one or more of the following:

- **Critical Reasoning:** Students will employ inquiry, analysis, and synthesis of information to formulate and/or evaluate an opinion or conclusion.
- **Problem Solving:** Students will design and formulate a strategy to answer a question or achieve a desired goal.
- **Quantitative Reasoning:** Students will analyze numerical information or observable facts resulting in informed conclusions.
- **Creative Thinking:** Student will demonstrate the capacity to combine or synthesize existing ideas, images, or expertise in

original ways and the experience of thinking, reacting, and working in an imaginative way characterized by a high degree of innovation, divergent thinking, and risk taking.

Information Literacy

Students will locate, evaluate, and use information effectively from diverse sources.

✓ Grading Scale

Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses. Please refer to Departmental Policies in Blackboard to review additional course and department policies.

Breakdown

10 Point Letter Grade (rounding up)

Final letter grades will be issued as follows:

Grade	Range	Notes
A	90 to 100+	
B	80 to 89	
C	70 to 79	
D	60 to 69	<i>Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.</i>
F	0 to 59	<i>Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.</i>

Criteria

Type	Weight	Topic	Notes
Unit Tests	35%		
Journal Entries	17.5%		
Labs	17.5%		
Written Final Exam	30%		Written and Hands-On Lab Category Breakdown: Written Final Exam 35% and Hands-On Lab Final Exam 65%

* Course Policies

Polices and Procedures

- Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses in order to earn credit towards a degree or certificate
- Classrooms assigned to the Computer Technology Department must be locked at all times except during scheduled
- Students may work in CPT classrooms outside of normal class schedule hours if given approval by department
- Under no circumstances should CPT classrooms be open when no one is working in the classroom; the last person leaving the classroom must close the door(s) which should automatically lock

Department Exam Policy

- Exam Policies reference Final Exams, Midterm Exams, and/or Skills Exams
- Exams must be taken as scheduled with no exemptions or exceptions

- A Comprehensive Final Exam will be given, unless otherwise stated the course syllabus
- Midterm and/or Skills Exams may be given and will be stated specifically on the course syllabus
- Exam dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Exams must be taken on or before the announced day; early exams may be arranged at the instructor's discretion; Late Exams will not be permitted

Exceptions to the Departmental Exam Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Test Policy

- Test Policies reference Unit Tests, Chapters Tests, and/or Projects
- Three or more unit tests will be given, unless otherwise stated in the course syllabus
- Test dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Tests must be taken on or before the announced day; early tests may be arranged at the instructor's discretion
- Each student will be allowed one make-up test in a course (for a penalty of no more than 20%)
- Additional missed tests will result in a grade of zero for that specific
- The date and time of the make-up test will be at instructor's discretion, not to exceed seven days after the scheduled test date
- Curves and bonus options will not be allowed for any make-up test

Exceptions to the Departmental Test Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Assignment Policy

- Assignment Policies reference Assignments, Quizzes, and/or Journals
- Assignment dates will be announced in class and posted on Blackboard
- The student assumes responsibility for materials and announcements missed when absent
- Late assignment will not be accepted
- Assignments makeups will not be permitted, unless otherwise stated in the course syllabus

Exceptions to the Departmental Assignment Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Department Lab Policy

- Lab Policies reference hands-on labs, equipment labs, virtual labs, and/or group Labs
- The student assumes responsibility for materials and announcements missed when absent
- Late labs will not be accepted
- Lab makeups will not be permitted, unless otherwise stated in the course syllabus
- The date and time of the make-up labs will be at instructor's discretion

Exceptions to the Departmental Lab Policy will be made on an individual basis as a result of a decision involving the department head, instructor, student, and/or the Divisional Dean

Departmental Academic Honesty Policy for Cheating and Plagiarism

Cheating and Plagiarism will not be tolerated in any Computer Technology course. If cheating and/or plagiarism are found, the following grading penalty will be assessed:

- First Offense – A grade of zero (0) will be assessed for the assignment or test on which the offense
- Second Offense – At a minimum, the student will receive a grade of zero (0) for that portion of the course in which the additional offense

Incompletes:

An INCOMPLETE ("I") will only be approved if ALL of the following conditions exist:

- The student must have no more than 4 weeks (14-week term) or 2 weeks (7-week/10-week term) remaining to complete the
- The student must have a validated, documented reason why he/she cannot complete the course by the prescribed end date (illness, work situation, death,).
- The student must be up to date with all work up to the point of the request for an Incomplete (no untaken tests or un-submitted labs, homework, etc.), and the student must have a passing grade average (C or higher) for all work

Plan of Instruction

Course Schedule (Plan of Instruction)

Please refer to Syllabus Addendum in Blackboard to review the Tentative Course Schedule. Your instructor will provide a detailed, week-by-week plan of instruction along with method of delivery, testing, and assignment submission.

Course Outline:

Course Outline (Modules)

IST 190 – MAIN TOPICS

- Introduction to the command line
- Managing physical storage
- Install and configure software components and services
- Establish network connections and control firewall restrictions
- Monitor and manage running processes
- Manage and secure files and file systems
- Administer users and groups
- Review the system log files and journal for issues
- Troubleshoot problems and analyze systems with Red Hat Insights
- Remotely manage systems with SSH and the Web Console

The instructor reserves the right to modify the Plan of Instruction by changing the sequence of text material or testing content. Refer to Attachment 1 for more.

Revised 8/9/2021

Institutional Policies

Instructional Agreement

This syllabus is an agreement between the student and instructor concerning course objectives, course content, grading, and other policies and procedures particular to the course as well as any posted program, departmental, and divisional policies. It is also the student's responsibility to become familiar with the Student Handbook/College Catalog found in the Student Resources area of Blackboard.

Technology Statement

Greenville Technical College is not responsible for personal technology or Internet access. Problems with computers, devices, or Internet access are not acceptable for late work. When completing gradable coursework online, be sure to access a secure, reliable internet connection (preferably hardwired). All technical questions should be directed to [GTC Tech Support](https://www.gvltec.edu/about_greenvilletech/tech_support). (https://www.gvltec.edu/about_greenvilletech/tech_support)

Students can access due dates for all assignments and quizzes/tests on the Course Schedule/Plan of Instruction. All graded work is time-stamped when submitted, so your instructor can check the time of submission. In addition, you will receive a confirmation email message when you submit assignments via Blackboard. You must provide this confirmation information in case of any dispute regarding the submission.

[Computer labs \(https://www.gvltec.edu/student_resources/computer_labs/\)](https://www.gvltec.edu/student_resources/computer_labs/) are available at multiple campus locations and offer various hours as well as staff who are available for assistance. Refer to the [Computing Facilities Use Policy \(https://catalog.gvltec.edu/student-handbook/campus-safety-security/\)](https://catalog.gvltec.edu/student-handbook/campus-safety-security/) in the student handbook.

Students should use Microsoft Office programs or PDF format for submitting assignments in Blackboard. Students can access the [Microsoft portal \(http://portal.office.com\)](http://portal.office.com), log in with their @my.gvltec.edu email address and Blackboard/GTC4me password, then follow the prompts to install Microsoft Office free of charge.

Students enrolled in any course, regardless of delivery method (face-to-face, online, blended), may incur additional expenses such as equipment (microphone and/or web cam) and test proctoring.

Verification of Students in Online Courses

Greenville Technical College is committed to student learning and the academic integrity of all courses. All GTC fully online courses are required to have at least one proctored learning activity that constitutes a significant percentage of the course grade, which may include a test, midterm, final exam, presentation or other assignment. Instructors teaching face-to-face and/or blended courses may also elect to use proctoring. Proctored is defined as an experience where an approved person ensures the identity of the student and monitors the learning activity. The proctored learning activity will be determined by the course instructor. The method of proctoring and any additional requirements, such as costs for students and/or trips to campus or approved testing center, will be explained in the course schedule/plan of instruction.

Students who refuse to be proctored for any proctored assignment and/or test in a fully online course will receive a grade of "F" for that course.

Instructional Continuity

In the event of a disruption to the normal class schedule or planned activities for this course, alternate learning activities that may include other methods of instruction or locations may be implemented. If disruption occurs, your instructor will communicate through your GTC email (Gmail) account. Additionally, please make sure your contact information is accurate in GTC's emergency alert system (accessible in GTC4Me/Quick Access/GTC Emergency Messaging).

In the event of inclement weather, refer to the [College's website \(https://www.gvltec.edu/about_greenvilletech/administration_governance/admin_policies/inclement-weather.html\)](https://www.gvltec.edu/about_greenvilletech/administration_governance/admin_policies/inclement-weather.html) for up-to-date information.

Course Evaluations

Student input is necessary for improving instruction at GTC and is requested primarily through course evaluations. Students will be notified when evaluations are available. The College welcomes your feedback and strongly encourages each student to complete the evaluation.

Administrative Withdrawals

Students may be administratively withdrawn from this course for the following reasons:

- **NIC (Never in Class)** Not attending a course during the drop/add period including failure to meet the attendance criteria in an online course. In this case, a grade of WA will be assigned. This WA will not count as an attempt and will not affect GPA.
- **14-Day Rule:** At any time during the semester and regardless of a student's use of financial aid benefits, the college will withdraw a student who is not in attendance for 14 consecutive calendar days including weekends, holidays, college breaks, and cancelled class sessions.
 - **Prior to the course withdrawal date**, the college policy is to assign a grade of W (Withdrawal). The student will earn no credits or grade points, and the W will not affect GPA. For students receiving financial aid, the course will count as an attempt and may affect future aid.
 - **After the course withdrawal date**, the college will assign a grade of WF for the course which will negatively affect GPA calculation. The student will be responsible for course payment and will not be eligible for a refund. The college will notify the student of the administrative withdrawal via official college email address. For students receiving financial aid, the course will be recorded as an attempt and may affect future financial aid awards.

Students may request a reinstatement. Reinstatements must be approved by the course instructor. There is a \$75 reinstatement fee.

Dropping, Adding, and Withdrawing from Courses

Students may drop courses during the add/drop period for each courses; student may add courses during the same period only before the class actually meets. Courses dropped during this period will not appear on the transcript. Students who withdraw from a course prior to the withdrawal deadline will earn a grade of W for that course, and the W will be reflected on the transcript. Refer to the college refund policy for information concerning refunds.

Students should not assume that they will be administratively withdrawn if they stop attending classes. **It is the student's responsibility to complete the process to withdraw from a course or courses prior to the published withdrawal deadline.** Students may withdraw from any or all courses either [electronically](https://www.gvltec.edu/admissions_aid/student_forms/AddDropWithdrawal-Form.pdf) (https://www.gvltec.edu/admissions_aid/student_forms/AddDropWithdrawal-Form.pdf) or through the Office of Student Records. Some students such as transient and career development students must complete the withdrawal process through the Office of Student Records. Any hold on a student's account (due to fines owed or similar obligations to the college) will prevent a student from withdrawing electronically.

The dates for add, drop, and withdrawal are tied to the particular session code and class section number as well as the start and end dates for each course. For example, a student who withdraws from a first session course and adds a second session course will incur tuition charges for both courses even if they are the same course.

NOTE: Students are responsible for meeting the posted course withdrawal deadlines.

For additional information on dropping, adding, or withdrawing from a course, visit the [College website](https://www.gvltec.edu/student_resources/student_records/add-drop.html) (https://www.gvltec.edu/student_resources/student_records/add-drop.html).

Incomplete Policy

An *Incomplete* is defined as academic work for which unforeseeable, emergency and justifiable reasons, has not been finished at the end of the term. Emergencies and justifiable reasons do *not* include: an opportunity to raise the grade earned; a student not taking the final exam without notification to the instructor as to why; or, using the incomplete as a means to retake a portion of the course due to a non-passing grade.

Guidelines:

1. Student must have completed a vast majority of the work required for the course. Usually, the vast majority of work means at least 75% of the assignments required for grading must have been completed.
2. Student must be passing the course with a grade of C or better.
3. No incompletes will be given prior to the last day to withdraw.
4. Student must request an incomplete in writing prior to an instructor's submission of the final grade.
5. Students receiving an incomplete cannot enroll in a class for which the course receiving an "I" is required as a prerequisite until the "I" has been replaced by an applicable letter grade.
6. The incomplete may be made up no later than 90 days after the end of the term in which it was assigned, at which time, the instructor's grade shall be entered on the student's academic record.
7. The annotation on the student's transcript shall indicate the change from "I" to the grade earned.
8. A student may petition for an extension of 90 days due to unusual circumstances. Such a petition will be reviewed by the instructor whose decision shall be forwarded to the Department Head for approval.
9. The "I" will be changed to an F if all work is not completed satisfactorily by the assigned deadline.

Students with Disabilities

Students with disabilities, including those who were served in Special Education (resource or tutorial), should contact [Student Disability Services](http://gvltec.edu/disability-services) (<http://gvltec.edu/disability-services>) (SDS) to discuss their need for services and accommodations. This process must be completed each term. The main SDS office is located on the Barton Campus in the Student Center Building 105, office 113.

Students may reach staff by phone at 864-250-8202 or via [email](mailto:DisabilityServices@gvltec.edu) (<mailto:DisabilityServices@gvltec.edu>). Appointments are available at all satellite campus locations.

The college is committed to providing materials that are accessible to all students. However, if you experience any difficulty accessing materials, please notify your instructor immediately so that we can provide a solution. You may also contact Student Disability Services directly at 864-250-8202 or via [email \(mailto:DisabilityServices@gvltec.edu\)](mailto:DisabilityServices@gvltec.edu).

Students who need a PDF reader to access course documents presented in PDF formats may download [Adobe Reader \(https://get.adobe.com/reader\)](https://get.adobe.com/reader).

Blackboard Ally

Blackboard Ally is a tool to improve students' experiences within online courses. It enables students to convert files in a course to more accessible formats such as HTML, electronic braille, audio and more. For more information, refer to [Blackboard Ally for Students \(https://www.softchalkcloud.com/lesson/serve/XVETeqkBpJlWdZ/html\)](https://www.softchalkcloud.com/lesson/serve/XVETeqkBpJlWdZ/html) located in Student Resources in the course menu.

FERPA Policy

Because Greenville Technical College abides by FERPA privacy guidelines, personal email accounts may not be used for any College-related communication. Faculty and students must use the college Gmail system only.

Title IX Policy

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

Greenville Technical College does not discriminate against any student on the basis of pregnancy or related conditions and will comply fully with Title IX regulations.

Absences due to medical conditions relating to pregnancy and maternity leave will be excused for as long as deemed medically necessary by a student's doctor, and the student will be given the opportunity to makeup missed work. Documentation from the student's doctor is required. Students needing assistance may seek accommodations from the Title IX Coordinator or Student Disability Services. Please contact the Title IX Coordinator via [email \(mailto:TitleIX@gvltec.edu\)](mailto:TitleIX@gvltec.edu) or Student Disability Services via [email \(mailto:DisabilityServices@gvltec.edu\)](mailto:DisabilityServices@gvltec.edu) for additional information.

Non-Discrimination Policy

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

The college complies with the provisions of Titles VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972 and the Higher Education Amendments of 1986; Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; the South Carolina Human Affairs Law of 1972; and with the Americans with Disabilities Act (ADA) of 1990 as well as the ADA Amendments of 2008 (ADAA).

For additional information on nondiscrimination policies, students should contact Student Disability Services, which coordinates Title II of the ADA/ADAA, Section 504 at 864-250-8202; Title IX Coordinator at 864-250-8144.

Assistance with Food and Housing

The faculty and staff of GTC, along with our fantastic GTC Foundation, are invested in removing barriers to your success at GTC throughout your academic career. The STAR (Student Assistance and Resources) Center can help if you are struggling with basic needs insecurity, such as food and toiletries, at our on-campus food pantries. We can also help connect students to resources in the community that can assist with rent and other types of assistance.

You can visit our webpage at: https://www.gvltec.edu/student_resources/student_support/transitions/index.html to learn more.

We are located in Building 104 (UT) in Room 137A, or by calling 864-250-8003. You can also reach us at star@gvltec.edu.

Proctorio

Proctorio is a remote proctoring service that is used with some classes when you take quizzes and exams in Blackboard. Proctorio is used in fully online courses and sometimes in on-campus courses to proctor tests. Proctorio may record

your webcam, your screen, or other actions during the exam session and share that information with your instructor. Proctorio will record your identity via webcam and, depending upon the exam settings controlled by individual instructors, monitor your exam attempt in various ways. A multitude of privacy provisions have been established to ensure student privacy and FERPA compliance. There are no fees associated with proctoring using Proctorio.

Can a student test in person instead of using Proctorio?

Alternative testing methods may be available if students want to opt-out of using Proctorio. For courses requiring test proctoring, where you live is a determining factor in whether you will be required to test at the Barton Campus or at a local, college-approved proctor location.

- If you live within 50 miles of the Barton Campus and are enrolled in a course that requires proctored testing, you are required to take your test at GTC's Testing Center.
- If you live 50 miles or more from the Greenville Technical College (GTC) Barton Campus (main campus) and are enrolled in a class that requires proctored testing, you have the option to obtain a test proctor (exam supervisor) and proctoring site to oversee your testing in lieu of on-campus testing. You are responsible for all proctoring service fees if you choose to test at an alternate, approved testing site.

Note: Both instructor and Testing Center approval are required at the start of the semester/term if a student elects to test at ANY testing center including the GTC Testing Center. Early notification assists with a smoother process in securing the proctoring services.

To opt out of using Proctorio for virtual proctoring, students must utilize the following steps:

1. Students must notify their instructor and GTC's testing center at least two (2) weeks prior to a scheduled test or quiz.
2. Students must complete and submit the [Non-Local Proctoring Agreement Form](#). Keep in mind, that the approval process may take 3 – 5 business days.
3. Students may take a test at GTC's testing center at the Barton Campus at no cost, or
4. Students may select a college/university as the alternative testing site and that site will be vetted for approval by GTC. To find an established location within the United States for proctoring, please use the [National College Testing Association \(NCTA\)](#) site search. *These sites may have adjusted hours of operation; please contact before submitting request form. Students may also use Google to search for a nearby College or University.
5. Once the site is approved for testing, students will make an appointment with their approved site to take exam.
6. Prices for proctoring services vary greatly by proctoring center. The student is responsible for all fees if they choose to test at an alternate, approved testing site.

[Instructions for Students \(https://drive.google.com/file/d/14D8g60E3PFy5FiHGO23-923Wvj_v_5ua/view?usp=sharing\)](https://drive.google.com/file/d/14D8g60E3PFy5FiHGO23-923Wvj_v_5ua/view?usp=sharing)

Academic Coaching & Tutoring

Coaching and tutoring is available for students who need additional assistance. If you need help in your course, visit the [Academic Coaching & Tutoring website](#) for additional information. Free online tutoring is also available to enrolled students through [Brainfuse](#).

Schedule

Course Schedule (Plan of Instruction)

Please refer to Syllabus Addendum in Blackboard to review the Tentative Course Schedule. Your instructor will provide a detailed, week-by-week plan of instruction via addendum along with method of delivery, testing, and assignment submission.

Date	Topic	Tasks
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Date	Topic	Tasks
Unit 1	IST190 Orientation & Getting Started with RHEL8	IST190 Orientation Download and read "Getting Started Guide for IST190" Post introduction to class in Blackboard Download and read IST190 Syllabus and attachments Submit Syllabus Quiz (A) Due Watch "Revolution OS" (see Unit 1 Course Content) Obtain online access to RH124-8 textbook Explore links for IST190 in associated websites3 Chapter 1: Getting Started with RHEL8 Read and Study Chapter 1 Watch Unit 1 Lecture Video Unit 1 Assignment (A)
Unit 2	Assessing the Command Line	Chapter 2: Assessing the Command Line Read and Study Chapter 2 Unit 2 covered in Zoom Class Unit 2 Assignment (A) All Unit 1 and Unit 2 Course Content Due
Unit 3	Managing Files from the Command Line	Chapter 3: Managing Files from the Command Line Read and Study Chapter 3 Watch Unit 3 Lecture Video Unit 3 Assignment (A) Lab 1-0: Setup Red Hat Academy RH124-8 Lab Virtual Machines Lab 2-1: Guided Exercise: Accessing the Command Line Using the Desktop (Section 2.4) Lab 2-2: Lab: Accessing the Command Line (Section 2.7) Lab 3-1: Guided Exercise: Managing Files Using Command-line Tools (Section 3.6) Lab 3-2: Guided Exercise: Making Links Between Files (Section 3.8) Lab 3-3: Lab: Managing Files from the Command Line (Section 3.11)
Unit 4	Getting Help in Red Hat Enterprise Linux	Chapter 4: Getting Help in Red Hat Enterprise Linux Read and Study Chapter 4 Unit 4 covered in Zoom Class Unit 4 Assignment (A) Lab 4-1: Guided Exercise: Reading Manual Pages (Section 4.2) Lab 4-2: Guided Exercise: Reading Info Documentation (Section 4.4) Lab 4-3: Lab: Getting Help in Red Hat Enterprise Linux (Section 4.5) All Unit 3 and Unit 4 Course Content Due
Unit 5	Creating, Viewing, and Editing Text Files	Unit Test 1: All Course Content in Units 1, 2, 3, and 4 Chapter 5: Creating, Viewing, and Editing Text Files Read and Study Chapter 5 Watch Unit 5 Lecture Video Unit 5 Assignment (A) Lab 5-1: Guided Exercise: Editing Text Files from the Shell Prompt (Section 5.4) Lab 5-2: Guided Exercise: Changing the Shell Environment (Section 5.6) Lab 5-3: Lab: Creating, Viewing, and Editing Text Files (Section 5.7)

Date	Topic	Tasks
Unit 6	Managing Local Users and Groups	Chapter 6: Managing Local Users and Groups Read and Study Chapter 6 Unit 6 covered in Zoom Class Unit 6 Assignment (A) Lab 6-1: Guided Exercise: Gaining Superuser Access (Section 6.4) Lab 6-2: Guided Exercise: Managing Local User Accounts (Section 6.6) Lab 6-3: Guided Exercise: Managing Local Group Accounts (Section 6.8) Lab 6-4: Guided Exercise: Managing User Passwords (Section 6.10) Lab 6-5: Lab: Managing Local Users and Groups (Section 6.11) All Unit 5 and Unit 6 Course Content Due
Unit 7	Controlling Access to Files	Chapter 7: Controlling Access to Files Read and Study Chapter 7 Unit 7 covered in Zoom Class Unit 7 Assignment (A) Lab 7-1: Guided Exercise: Managing File System Permissions... (Section 7.4) Lab 7-2: Guided Exercise: Managing Default Permissions and File Access (Section 7.6) Lab 7-3: Lab: Controlling Access to Files (Section 7.7)
Unit 8	Monitoring and Managing Linux Processes	Chapter 8: Monitoring and Managing Linux Processes Read and Study Chapter 8 Watch Unit 8 Lecture Video Unit 8 Assignment (A) Lab 8-1: Guided Exercise: Controlling Jobs (Section 8.4) Lab 8-2: Guided Exercise: Killing Processes (Section 8.6) Lab 8-3: Guided Exercise: Monitoring Process Activity (Section 8.8) Lab 8-4: Lab: Monitoring and Managing Linux Processes (Section 8.9) All Unit 7 and Unit 8 Course Content Due
Unit 9	Controlling Service and Daemons	Unit Test 2: All Course Content in Units 5, 6, and 7 Chapter 9: Controlling Service and Daemons Read and Study Chapter 9 Unit 9 covered in Zoom Class Unit 9 Assignment (A) Lab 9-1: Guided Exercise: Identifying Automatically Started System Processes (Section 9.2) Lab 9-2: Guided Exercise: Controlling System Services (Section 9.4) Lab 9-3: Lab: Controlling Services and Daemons (Section 9.5)
Unit 10	Configuring and Securing SSH	Chapter 10: Configuring and Securing SSH Read and Study Chapter 10 Watch Unit 10 Video Lecture Unit 10 Assignment (A) Lab 10-1: Guided Exercise: Accessing the Remote Command Line (Section 10.2) Lab 10-2: Guided Exercise: Configuring SSH Key-based Authentication (Section 10.4) Lab 10-3: Guided Exercise: Customizing OpenSSH Service Configuration (Section 10.6) Lab 10-4: Lab: Configuring and Securing SSH (Section 10.7) All Unit 9 and Unit 10 Course Content Due

Date	Topic	Tasks
Unit 11	Analyzing and Storing Logs	Chapter 11: Analyzing and Storing Logs Read and Study Chapter 11 Watch Unit 11 Lecture Video Unit 11 Assignment (A) Lab 11-1: Guided Exercise: Reviewing Syslog Files (Section 11.4) Lab 11-2: Guided Exercise: Reviewing System Journal Entries (Section 11.6) Lab 11-3: Guided Exercise: Preserving the System Journal (Section 11.8) Lab 11-4: Guided Exercise: Maintaining Accurate Time (Section 11.10) Lab 11-5: Lab: Analyzing and Storing Logs (Section 11.11)
Unit 12	Managing Networks	Chapter 12: Managing Networks Read and Study Chapter 12 Unit 12 covered in Zoom Class Unit 12 Assignment (A) Lab 12-1: Guided Exercise: Validating Network Configuration (Section 12.4) Lab 12-2: Guided Exercise: Configuring Networking from the Command Line (Section 12.6) Lab 12-3: Guided Exercise: Editing Network Configuration Files (Section 12.8) Lab 12-4: Guided Exercise: Configuring Host Names and Name Resolution (Section 12.10) Lab 12-5: Lab: Managing Networking (Section 12.11) All Unit 11 and Unit 12 Course Content Due
Unit 13	Archiving and Transferring Files	Unit Test 3: All Course Content in Units 8, 9, and 10 Chapter 13: Archiving and Transferring Files Read and Study Chapter 13 Watch Unit 13 Lecture Video Unit 13 Assignment (A) Lab 13-1: Guided Exercise: Managing Compressed Tar Archives (Section 13.2) Lab 13-2: Guided Exercise: Transferring Files Between Systems Securely (Section 13.4) Lab 13-3: Guided Exercise: Synchronizing Files Between Systems Securely (Section 13.6) Lab 13-4: Lab: Archiving and Transferring Files (Section 13.7)
Unit 14	Installing and Updating Software Packages	Chapter 14: Installing and Updating Software Packages Read and Study Chapter 14 Unit 14 covered in Zoom Class Unit 14 Assignment (A) Lab 14-1: Guided Exercise: Explaining and Investigating RPM Software Packages (Section 14.4) Lab 14-2: Guided Exercise: Installing and Updating Software Packages with Yum (Section 14.6) Lab 14-3: Guided Exercise: Enabling Yum Software Repositories (Section 14.8) Lab 14-4: Guided Exercise: Managing Package Module Streams (Section 14.10) Lab 14-5: Lab: Installing and Updating Software Packages (Section 14.11) All Unit 13 and Unit 14 Course Content Due
Unit 15	Accessing Linux File Systems	Chapter 15: Accessing Linux File Systems Read and Study Chapter 15 Unit 15 covered in Zoom Class Unit 15 Assignment (A) Lab 15-1: Guided Exercise: Mounting and Unmounting File Systems (Section 15.4) Lab 15-2: Guided Exercise: Locating Files on the System (Section 15.6) Lab 15-3: Lab: Accessing Linux File Systems (Section 15.7) All Unit 15 Course Content Due

Date	Topic	Tasks
Unit 16	Analyzing Servers and Getting Support & Comprehensive Review	Unit Test 4: All Course Content in Units 11, 12, 13, and 14 Chapter 16: Analyzing Servers and Getting Support Read and Study Chapter 16 Watch Unit 16 Lecture Video Unit 16 Assignment (A) Lab 16-1: Guided Exercise: Analyzing and Managing Remote Servers (Section 16.2) Lab 16-2: Guided Exercise: Getting Help from Red Hat Customer Portal (Section 16.4) Chapter 17: Comprehensive Review Read and Study Chapter 17 (Self Study) Five Review Labs in preparation for the Final Exam in IST190 All Unit 16 Course Content Due
	Written Final Exam	Written Final Exam: All Course Content in All Units
	Skills Based Final Exam	Skills Based Final Exam: Five Outcome Labs