

IST190-WS3 Syllabus Attachment 1 - 2021SP

IST190: Linux Essentials (RHA RH124-8)

Wednesdays at 12:45 PM to 2:45 PM on Zoom

Instructor Contact and Class Information:

Instructor: Beau Sanders

Office: Barton Campus, Building 103, Room 136A (teaching remote this semester)

GTC Gmail: sandewbs@my.gvltec.edu (preferred method of contact)

GTC Office Phone: 864-250-8314

Cell: 864-325-7240 (preferred phone; identify yourself in texts and voicemail)

Office Hours and Class Schedule²: <https://beausanders.org/schedule/>

For scheduling purposes weeks start on the Monday of each week in the semester

Attendance Assignments = (A)

210128

IST190 Tentative Course Schedule¹

Unit #	✓	Week	Topic/Activity	Due Date
Unit 1		1	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	
			Watch "Revolution OS" (see Unit 1 Course Content)	
			Obtain online access to RH124-8 textbook	
			Explore links for IST190 in associated websites ³	
		1	Chapter 1: Getting Started with RHEL8	
			Read and Study Chapter 1	
			Unit 1 Assignment (A)	
Unit 2		1	Chapter 2: Assessing the Command Line	
			Read and Study Chapter 2	
			Unit 2 Assignment (A)	
		1	All Unit 1 and Unit 2 Course Content Due	Tuesday, January 19, 2021
		2	MLK Day on Monday, January 18th - GTC Closed - No Classes	
Unit 3		2	Chapter 3: Managing Files from the Command Line	
			Read and Study Chapter 3	
			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)	
		2	All Unit 3 Course Content Due	Tuesday, January 26, 2021
Unit 4		3	Chapter 4: Getting Help in Red Hat Enterprise Linux	
			Read and Study Chapter 4	
			Unit 4 Assignment (A)	

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Unit #	✓	Week	Topic/Activity	Due Date
			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)	
		3	All Unit 4 Course Content Due	Tuesday, February 2, 2021
Unit 5		4	Chapter 5: Creating, Viewing, and Editing Text Files	
			Read and Study Chapter 5	
			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)	
		4	All Unit 5 Course Content Due	Tuesday, February 9, 2021
		5	Unit Test 1: All Course Content in Units 1, 2, 3, and 4⁴	Sun, Feb 7th to Tue, Feb 9th
Unit 6		5	Chapter 6: Managing Local Users and Groups	
			Read and Study Chapter 6	
			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)	
		5	All Unit 6 Course Content Due	Tuesday, February 16, 2021
Unit 7		6	Chapter 7: Controlling Access to Files	
			Read and Study Chapter 7	
			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)	
		6	All Unit 7 Course Content Due	Tuesday, February 23, 2021
Unit 8		7	Chapter 8: Monitoring and Managing Linux Processes	
			Read and Study Chapter 8	
			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)	
		7	All Unit 8 Course Content Due	Tuesday, March 2, 2021
		8	Unit Test 2: All Course Content in Units 5, 6, and 7⁴	Sun, Feb 28th to Tue, Mar 2nd
Unit 9		8	Chapter 9: Controlling Service and Daemons	
			Read and Study Chapter 9	
			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		8	Chapter 10: Configuring and Securing SSH	

IST190 Tentative Course Schedule¹

Unit #	✓	Week	Topic/Activity	Due Date
			Read and Study Chapter 10	
			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)	
		8	All Unit 9 and Unit 10 Course Content Due	Tuesday, March 9, 2021
Unit 11		9	Chapter 11: Analyzing and Storing Logs	
			Read and Study Chapter 11	
			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)	
		9	All Unit 11 Course Content Due	Tuesday, March 16, 2021
Unit 12		10	Chapter 12: Managing Networks	
			Read and Study Chapter 12	
			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)	
		10	All Unit 12 Course Content Due	Tuesday, March 23, 2021
Unit 13		11	Chapter 13: Archiving and Transferring Files	
			Read and Study Chapter 13	
			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)	
		11	All Unit 13 Course Content Due	Tuesday, April 6, 2021
		12	SPRING BREAK - March 29th through April 3rd - No Classes at GTC	
		13	Unit Test 3: All Course Content in Units 8, 9, and 10⁴	Sun, Apr 4th to Tue, Apr 6th
Unit 14		13	Chapter 14: Installing and Updating Software Packages	
			Read and Study Chapter 14	
			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)	
		13	All Unit 14 Course Content Due	Tuesday, April 13, 2021

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Unit #	✓	Week	Topic/Activity	Due Date
Unit 15		14	Chapter 15: Accessing Linux File Systems	
			Read and Study Chapter 15	
			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)	
		14	All Unit 15 Course Content Due	Tuesday, April 20, 2021
		15	Unit Test 4: All Course Content in Units 11, 12, 13, and 14⁴	Sun, Apr 18th to Tue, Apr 20th
Unit 16		15	Chapter 16: Analyzing Servers and Getting Support	
			Read and Study Chapter 16	
			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)	
		15	Chapter 17: Comprehensive Review	
			Read and Study Chapter 17	
			(Self Study) Five Review Labs in preparation for the Final Exam in IST190	
		15	All Unit 16 Course Content Due	Tuesday, April 27, 2021
		16	Written Final Exam: All Course Content in All Units⁴	Sun, Apr 25th to Tue, Apr 27th
		16	Skills Based Final Exam: Five Outcome Labs⁵	Wednesday, April 28, 2021

IMPORTANT NOTES:

- It is important to check the course electronic **Calendar** weekly in Blackboard. The dates shown above are tentative and are for planning purposes only. The dates can be changed by the instructor at any time. Check the course electronic **Calendar** in Blackboard for the actual dates.
- Office Hours for 2021SP will be online.** Check the instructor's posted office hours at <https://beausanders.org/schedule/> online. Please make an appointment if you want to meet with your instructor during his office hours.
- Instructor's Website**
<https://beausanders.org/IST190/>
 Download Lecture Slides, Virtual Class Videos, and other course information
 Username = ist190
 Password = clobber
- Unit Tests and the Written Final Exam in IST190** will be scheduled Sunday, Monday, and Tuesday each test week and Final Exams week. All Unit Tests and the Written Final Exam will be taken at home and proctored by Honorlock.
- Skills Based Final Exam** will be taken as a class during Exam Week. Each student will complete five skills based labs. Each lab tracks to one of the IST190 Course Outcomes in the IST190 Syllabus. The Skills Based Exam will be proctored by the instructor.