

IST190: Linux Essentials (RHA RH124-8)
IST190-W47 Tentative Class Schedule for 2022FA
 Thursdays at 6:00 PM to 8:00 PM on Zoom

Instructor Contact and Class Information:

Instructor: Beau Sanders
 Office: Barton Campus, Building 103, Room 223D
 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
 All Unit Tests are available Monday through Wednesday during test weeks; proctored by Proctorio⁴
 Attendance Assignments = (A)

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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	Sunday, August 28, 2022
Unit 3		2	Chapter 3: Managing Files from the Command Line	
			Read and Study Chapter 3	
			Unit 3 Assignment (A)	
			CentOS8 Stream Virtual Machine Install Confirmation	
			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	Sunday, September 4, 2022
Unit 4		3	Chapter 4: Getting Help in Red Hat Enterprise Linux	
		3	Labor Day on Monday, September 5th - GTC Closed - No Classes	
			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	Sunday, September 11, 2022
		5	Unit Test 1: All Course Content in Units 1, 2, 3, and 4⁴	Mon Sep 12th to Wed Sep 14th
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	Sunday, September 18, 2022
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	Sunday, September 25, 2022
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	Sunday, October 2, 2022
		7	Unit Test 2: All Course Content in Units 5, 6, and 7⁴	Mon Oct 3rd to Wed 5th
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	Sunday, October 9, 2022
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	

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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	Sunday, October 16, 2022
		9	Unit Test 3: All Course Content in Units 8, 9, and 10⁴	Mon Oct 17th to Wed Oct 19th
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	Sunday, October 23, 2022
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	Sunday, October 30, 2022
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	Sunday, November 6, 2022
		12	FALL BREAK - Mon, November 7th and Tue, November 8th - No Classes at GTC	
Unit 14		12	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)	
		12	All Unit 14 Course Content Due	Sunday, November 13, 2022

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Unit #	✓	Week	Topic/Activity	Due Date
Unit 15		13	Chapter 15: Accessing Linux File Systems (Video)	
			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)	
		13	All Unit 15 Course Content Due	Sunday, November 20, 2022
		14	Unit Test 4: Course Content Units 11, 12, 13, and 14 (A)	Sun Nov 20th to Tue Nov 22nd
		14	THANKSGIVING BREAK - Wed Nov 23rd to Sat Nov 26th - No Classes at GTC	
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	Sunday, December 4, 2022
		15	Written Final Exam: All Course Content in All Units⁴	Mon Nov 28th to Wed Nov 30th
		16	Skills Based Final Exam: Five Outcome Labs⁵	Thursday, December 8, 2022

IMPORTANT NOTES:

1 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.

2 Check the instructor's posted office hours at <https://beausanders.org/schedule/>. Please make an appointment if you want to meet with your instructor during his office hours.

3 Instructor's Website

<https://beausanders.org/IST190/>

Download Lecture Slides, Virtual Class Videos, and other course information

Username = ist190

Password = clobber

4 **Unit Tests and the Written Final Exam in IST190** will be scheduled Monday, Tuesday, and Wednesday (except Unit Test 4) each test week and Final Exams week. All Unit Tests and the Written Final Exam will be taken at home and proctored by Proctorio.

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Unit #	✓	Week	Topic/Activity	Due Date
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5 **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.
