

# IT3150 - Windows Servers (CRN 20578)

## Spring 2024 Syllabus

This class instructs students in the installation, configuration and administration of Windows Server 2016, 2019, and 2022.

**Prerequisites:** IT1200 and IT2400 with a C grade or better, or with instructor permission.

**Course fee:** \$20, used to assist in maintaining IT infrastructure.

### **One section:**

- MW 1:30pm-2:45pm in Smith 107
- **Final exam: Wednesday May 1st @ 1pm in SCC 107**

### **Instructor:**

- [Jay Sneddon](#)
- Office: Burns 235
- Office hours: MW 11:00am-11:50am, TTh 10:30am-11:50am or by appointment. Zoom appointments may be arranged.

## Objectives

| At the end of the course, students will be able to:   | Outcome is Measured through     |
|---|---------------------------------|
| Install Windows Server 2016, 2019, 2022 ( <a href="#">IT PLO 1,2,3</a> )                        | Assignments, Quizzes, and Exams |
| Configure Windows Server 2016, 2019, 2022 ( <a href="#">IT PLO 1,2,3</a> )                      | Assignments, Quizzes, and Exams |
| Administer Windows Server 2016, 2019, 2022 ( <a href="#">IT PLO 1,2,3</a> )                     | Assignments, Quizzes, and Exams |
| Install and configure Active Directory ( <a href="#">IT PLO 1,2,3</a> )                         | Assignments, Quizzes, and Exams |
| Implement and deploy Group Policies ( <a href="#">IT PLO 1,2,3,4</a> )                          | Assignments, Quizzes, and Exams |
| Integrate Microsoft Azure in an Active Directory environment ( <a href="#">IT PLO 1,2,3,4</a> ) | Assignments, Quizzes, and Exams |

## Resources

### **REQUIRED** [TestOut.com](#)

To purchase:

- 1 - Visit Testout
- 2 - Go to the course shopping page and enter the pricing code 14-232TA.
- 3 - Under LabSim Courses for Microsoft, select TestOut Hybrid Server Pro ISBN: 978-1-935080-84-8 to purchase and add to shopping cart. The price should be around \$129.
- 4 - Follow shopping cart directions to place your order
- 5 - When prompted enter school name exactly as Utah Tech University
- 6 - Follow instructions on the order confirmation screen and /or your emailed invoice for accessing LabSim.
- 7 - Join Class IT 3150 Sp 2024

### **Computer Resources**

Each IT3150 student will be assigned a physical server to use for the course. That server will be configured for remote access so student work may be done outside class. It is strongly recommended that students bring a portable personal computer with them to class.

## Course Information

You are responsible for being informed regarding announcements, the schedule, and other resources posted on this website. Grading and assignments are managed at <https://utahtech.instructure.com>.

## Assignments and Exams

### Assignments

Assignments will be graded based on completeness and a grading rubric. Assignments build upon previous ones, as we will be building out a Windows server environment. Included as part of the assignments are simulations from TestOut, where specific tasks are virtualized.

(See the Late Work policy for more information)

All assignments are due Saturday night at 11:59pm, unless otherwise noted on Canvas. The primary reason for this is the Smith Computing Center is not open on Sundays.

### Exams

This course will feature weekly quizzes and four exams, culminating in a final.

### Testing Out of the Class

This course is preparatory for the [Microsoft AZ-800 Certification Exam](#). Students may test out of the class with an A grade if they pass the AZ-800 exam prior to the third week of the semester. Passing the exam later in the semester will excuse the student from the final exam.

Contact me if you have any questions about this.

## Grading

Assignments, quizzes and exams each contribute to your point total. Assignments are 25%, TestOut Labs 25%, Quizzes 10%, Exams 20% and the Final is 20% of your grade.

Here is the grading scale:  $\geq 94 = A$   $\geq 90 = A-$   $\geq 87 = B+$   $\geq 84 = B$   $\geq 80 = B-$   $\geq 77 = C+$   $\geq 74 = C$   $\geq 70 = C-$   $\geq 67 = D+$   $\geq 64 = D$   $< 64 = F$

## Tentative Topic Schedule

| Week of | Reading   | Tests                          |
|---------|---|--------------------------------|
| Jan 7   | <b>Ch 01 Introduction (3) &amp; Ch 02 On-Premises Windows Server (2), Ch 10.1 Manage Storage Service - Configure Disk and Volumes (1)</b> |                                |
| Jan 14  | <b>Ch 4.1-4.3 Manage IP Addressing (1) &amp; Ch 12 Virtualization and Containers (8)</b>  |                                |
| Jan 21  | Review  | <b>Exam 1 (Ch 1,2,10.1,12)</b> |
| Jan 28  | <b>Ch 03 Cloud and Azure &amp; Ch 4.4-4.10 Manage IP Addressing (11)</b>  |                                |
| Feb 4   | <b>Ch 05 Implement DNS (11)</b>   |                                |
| Feb 11  | Review  | <b>Exam 2 (Ch 3,4,5)</b>       |
| Feb 18  | <b>Ch 06 Active Directory (14)</b>  |                                |
| Feb 25  | <b>Ch 07 Active Directory Objects (10)</b>  |                                |
| Mar 3   | <b>Ch 8 Group Policy (10)</b>   |                                |
| Mar 10  | <b>Spring Break - No Class</b>  |                                |
| Mar 17  | Review  | <b>Exam 3 (Ch 6,7,8)</b>       |
| Mar     | <b>Ch 9 Manage Group Policy and Windows Updates on Hybrid Environment (4)</b>   |                                |

|        |  |                                       |
|--------|--|---------------------------------------|
| 24     | <b>Ch 9 Manage Servers and workloads in a Hybrid Environment (4)</b> |                                       |
| Mar 31 | <b>Ch 10.2-10.7 Manage Storage Service (7)</b>                       |                                       |
| Apr 7  | <b>Ch 11 Manage File Service (10)</b>                                |                                       |
| Apr 14 | <b>Ch 13 On-Premises and Hybrid Network Connectivity (3)</b>         |                                       |
| Apr 21 | Comprehensive Review   | <b>Exam 4 (Ch 9,10,11,13)</b>         |
| May 1  | <b>Finals</b>  | Wednesday May 1st<br>@ 1pm in SCC 107 |

This schedule is subject to change. The number in parenthesis indicates how many labsims are in each chapter. The chapter assignments are from TestOut.com's Hybrid Server Pro course. Some supplemental online resources may be used.

## Course Policies

### ***Absences***

Students are responsible for material covered and announcements made in class. School-related absences may be made up only if prior arrangements are made. The class schedule on [Canvas](#) presented is approximate. The instructor reserves the right to modify the schedule according to class needs. Changes will be announced in class and posted to the website. Exams and quizzes cannot be made up unless arrangements are made *prior* to the scheduled time.

### ***Time***

Courses should require about 3 hours of outside work per lecture hour of class, part of which is working through the online TestOut labs. This class will require about 9 hours of work per week on the part of the student to achieve a passing or higher grade. Be sure to evaluate your schedule before committing to this course.

### ***Late work***

Assignments, quizzes and exams are due on the date specified in the schedule. Late work will be accepted but penalized.

Arranging make up quizzes and exams is despised by the instructor. It makes me extremely grumpy and moody. The student groveling gets old, and I have heard nearly all of the excuses. That said, clever students come up with new whoppers that get added to an already lengthy list. I am much happier when that cleverness is channeled into coursework learning.

Late work and test penalties are as follows:

- Late work will be penalized 10% per day past the due date (including weekends and holidays) with a maximum penalty of 50%. No exams will be accepted late without prior consent of the instructor.
- No late work will be accepted during Finals week.
- I have the option to reject any late work regardless of the submission date.

### ***Policy for Absences Related to College Functions***

Students may periodically miss classes for various college-related functions or military functions; these include athletics, club events, or to fulfill the requirements of a course or a program. Military functions may include: Reserve and Guard activation, activation, special assignments or other approved events or activities. These absences may often conflict with the instruction, assignments, and tests in this course.

Please provide an advanced written notification from your activity supervisor that explains the nature of the activity, and the anticipated time missed.

### ***Cheating and Collaboration***

Limited collaboration with other students in the course is permitted and encouraged. Students may seek help learning concepts and developing programming skills from whatever sources they have available, and are encouraged to do so. Collaboration on assignments, however, must be confined to course instructors, lab assistants, and other students in the course. See the section on cheating.

Cheating will not be tolerated, and will result in a failing grade for the students involved as well as possible disciplinary action from the college. Cheating includes, but is not limited to, turning in homework assignments that are not the student's own work. It is okay to seek help from others and from reference materials, but only if you learn the material. As a general rule, if you cannot delete your assignment, start over, and re-create it successfully without further help, then your homework is not considered your own work.

You are encouraged to work in groups while studying for tests, discussing class lectures, and helping each other identify errors in your homework solutions. If you are unsure if collaboration is appropriate, contact the instructor. Also, note exactly what you did. If your actions are determined to be inappropriate, the response will be much more favorable if you are honest and complete in your disclosure.

Where collaboration is permitted, each student must still create and type in his/her own solution. Any kind of copying and pasting is *not* okay. If you need help understanding concepts, get it from the instructor or fellow classmates, but never copy another's written work, either electronically or visually. It is a good idea to wait at least 30 minutes after any discussion to start your independent write-up. This will help you commit what you have learned to long-term memory as well as help to avoid crossing the line to cheating.

### ***Disability/Accessibility Resources***

Utah Tech welcomes all students and strives to make the learning experience accessible. If you are a student with a medical, psychological, or learning disability that may require accommodations for this course, you are encouraged to contact the Disability Resource Center (DRC) as soon as possible. You may request reasonable accommodations at any time during the semester; however, they are not retroactive. The DRC is located next door to the Testing Center in the North Plaza Building (435 652-7516, [drc@utahtech.edu](mailto:drc@utahtech.edu), [drcenter.utahtech.edu](http://drcenter.utahtech.edu)).

### ***Disruptive Behavior Policy/Classroom Expectations***

The classroom needs an atmosphere of learning and sharing. Class members need to feel safe and able to concentrate. Disruptive behavior that seriously detracts from this environment or inhibits the instructor's ability to conduct proper instruction will not be allowed. Disruptive behavior includes:

- Physical violence, verbal abuse, or harassment
- Intoxication or illegal drug use
- Use of profanity
- Failing to respect others when expressing their own viewpoints
- Talking while the instructor or another student is talking
- Constant questions or interruptions that interfere with classroom presentation

Disruptive class members will be warned. Continued misbehavior may lead to dismissal from class or the course. If necessary, Campus Police may be called.

## **University Policies**

### **OTHER UNIVERSITY SUPPORT SERVICES**

| NAME   | SERVICE  |
|--|--|
| <a href="#">Utah Tech Resources Overview</a>             | Visit this site to see many student resources in one place.  |
| <a href="#">Academic Advisement</a>                      | Helps students make decisions about their courses and degree path.   |
| <a href="#">Academic Performance and Tutoring Center</a> | Offers one-on-one tutoring, study hall, and online tutoring to help students in many subjects ranging from Math to Foreign Language.                                 |
| <a href="#">Booth Wellness Center</a>                    | Provides acute health care, referral services, health education, and brief mental health services.   |
| <a href="#">Campus Life</a>                              | The Utah Tech University Student Association offers a variety of ways to get involved socially at the university.  |
| <a href="#">Career Services</a>                          | Assists students with career exploration, choosing a major, writing a resume, and getting a job.   |
| <a href="#">Center for Inclusion &amp; Belonging</a>     | Increases diversity through scholarship opportunities, community outreach, academic advisement, and diversity club participation.                                    |
| <a href="#">Dean of Students Office</a>                  | Serves as a primary advocate and support network for students. Assists students who are facing personal challenges, including financial, food, and housing concerns. |
| <a href="#">Disability Resource</a>                      | Serves students with disabilities by providing equal access to academic programs, non-   |

|  |  |
|--|--|
| <a href="#">Center</a>                   | academic activities, and campus facilities   |
| <a href="#">DRC Accessibility</a>        | A list of DRC services including exam accommodations, ASL interpreting, materials in alternative format, and more.   |
| <a href="#">Help Desk</a>                | Provides assistance for Canvas, Student Email, Student Services, Trailblazers wireless configuration, laptop assistance, and any other technical troubleshooting you may need help with. |
| <a href="#">Library</a>                  | Provides the resources necessary to facilitate research and enhance university curriculum and programs.  |
| <a href="#">Math Tutoring Center</a>     | Students can drop in to work on homework, take tests, and receive individualized or group tutoring. Online tutoring is also available.   |
| <a href="#">Student Support Services</a> | Provides a variety of free services to help first-generation, low-income, or students with disabilities to complete an associate degree and move on to a bachelor degree.                |
| <a href="#">Testing Center</a>           | Provides all proctored exams on campus and can make accommodations for remotely proctored exams.   |
| <a href="#">Utah Health Scholars</a>     | Provides tutors for upper-division, health-related courses. Students must register into the UHP program to qualify for this free tutoring.   |
| <a href="#">Veterans Services</a>        | Offers tutoring for some classes and arranges tutoring in other centers for other classes. Must have VA benefits to qualify.   |
| <a href="#">Writing Center</a>           | Offers students personalized attention from tutors for writing.  |

## UTAH TECH POLICIES & STATEMENTS

### PRIVACY

It is your responsibility to protect your data and privacy online. Be careful and use discretion when using any of the course technologies to complete required learning activities. If you are unsure about how to protect your data and privacy online, please use the resources provided to understand your responsibility.

[101 Data Protection Tips: How To Keep Your Passwords, Financial, and Personal Information Safe](#)

Harper, E. (2018). [9 Simple Ways To Protect Your Privacy](#)

[Canvas Privacy Policy](#)

[Google Privacy Policy](#)

[YouTube Policies](#)

[Vimeo Privacy Policy](#)

### Utah Tech Policy Links

[Code of Student Rights and Responsibilities \(Academic dishonesty / academic integrity policy, student academic conduct policy\)](#)

[Financial Aid](#)

[Registration](#)

[Student Association](#)

[Student absence related to college function](#)

[Sexual Harassment](#)

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## TITLE IX STATEMENT

Utah Tech University affirms its commitment to the promotion of fairness and equity in all aspects of the

educational institution. Harassment and discrimination—including sex/gender discrimination, gender identity, gender expression, sexual harassment, sexual misconduct, gender-based violence, dating violence, domestic violence, stalking, pregnancy or parental , family or marital status and or retaliation—not only disrupts our commitment to maintaining an environment in which every member of the University community is treated with respect and dignity, but may also violate University policy and federal, state, and/or local law.

Should you or someone you know experience behavior that is coercive, discriminatory, harassing, and or sexually violent in nature, or if you or someone you know has questions about their rights and options regarding such behavior, you are encouraged to contact:

[Title IX Coordinator](#) 435.652.7747 (ext. 7747)

Incidents may also be reported directly to law enforcement, either separately or in conjunction with any report made to the University's Title IX Coordinator, and the University will aid in making contact if requested.

Utah Tech University Police 435.275.4300 or by calling 9-1-1

Maintaining a safe and inclusive University community is a shared responsibility. For more information on how Title IX protections can benefit you and help us keep a productive campus environment, visit [titleix.utahtech.edu](http://titleix.utahtech.edu) to learn more.

## **STUDENT EMAIL**

You are required to frequently check your university email account. Important class and university information will be sent to your university account, including Utah Tech bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at Utah Tech and in your courses. To access your university-sponsored account, visit [helpdesk.utahtech.edu/about-dmail](http://helpdesk.utahtech.edu/about-dmail). Your username is your digital ID (e.g. D00111111).

## **NON-STUDENT**

Non-student in the classroom and other designated study areas: It is expected that only bona fide students as defined and classified by the Utah Tech University catalog, will attend classes, unless specific prior permission for guests has been obtained from the instructor.

## **ACADEMIC GUIDELINES REGARDING COVID-19**

For Utah Tech's [up-to-date COVID-19 Emergency Response Plan](#), please visit the university website.