

Oklahoma State University Institute of Technology
Face-to-Face Common Syllabus
Fall 2017

ITD 1213 Hardware Systems Support

Focuses on the management and maintenance of hardware and operating system environments. Topics include: user administration, security, backup/recovery, and advanced systems performance evaluation and troubleshooting.

Course Purpose:

This course focuses on the requirements and knowledge required to successfully complete the CompTIA A+ hardware certification exams (currently 901 & 902).

Type of course: Theory/Lab

Credit Hours: 3; Total hours of theory per semester: 30;

Total hours of lab for the semester: 45; Total hours of clinical per semester: 0.

Class length - Full Semester

Class format – Campus

Class Days and Times: Monday & Wednesday 12:30 to 2:50 PM, Central time,
Monday & Wednesday 9:30 to 11:50 PM, Central time or Tuesday & Thursday 12:30 to 2:50 PM, Central time

Prerequisites: None

Instructor Name: Dr. Fil Guinn

Instructor Phone: (918) 293-5428

Office: EET/IT, Room 15C

Instructor email: fil.guinn@okstate.edu

Contact: My preferred method of contact is **email**. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours: Monday and Wednesday 6:30 – 8:30 PM (Online, Phone and Email), Tuesday & Thursday 8:00 – 9:30 AM (On Campus) PLUS should be available in my office during the Study Hall, Monday-Thursday, 3-4PM, Central Time

School: Information Technologies

School's Main Phone: 918-293-5440

Required Text, References, and Materials

Texts: Complete CompTIA A+ Guide to PCs: 7th Edition, Cheryl A. Schmidt,
Pearson uCertify.com access combo ISBN-13: 9780797957098

*****This is a custom bundle ONLY available at the OSUIT bookstore*****

References: Assorted Subject Videos

Materials: Access to a computer with broadband Internet Access (2Mbps upload preferred)

Uniform/Tools: Jewelers phillips head screwdriver required.

Estimated Cost for Materials: \$ 140.00 book, 6-\$10 for screwdriver

Estimated Cost for Uniform/Tools: \$ None

Optional Resources: Assorted YouTube videos

Upon completion of the course, students should:

Course Objectives	Assessment of Competency	
Demonstrate knowledge of standard backup or disaster recovery processes	Chapter 16 Back-up Labs (16.18 & 16.19)	A.1
Apply knowledge, skills, tools, or techniques to activities needed to meet project or laboratory requirements	Course Project*	I.2
Identify, assess the potential for, and justify alternative or evolving IT system changes to improve process performance	Chapters 2, 11, & 13 Review Questions	K.2
Troubleshoot PC hardware issues based on possible scenarios to the resolution of the issue	OS configuration Lab(s)	M.1

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (*) above indicates this assignment is used in the university assessment program.

Course Activities

In this course students will:

- Describe computer systems, component types, and programs.
- Demonstrate knowledge of basic computer operation principles.
- Access information using electronic sources.
- Interpret and implement written as well as verbal instructions.
- Illustrate proficiency with operating systems.
- Apply a basic knowledge of networking principles.
- Describe procedures for installing and uninstalling components and equipment.
- Define a procedure for backing up work within a computer system.
- Apply troubleshooting skills to computer systems and networking equipment.
- Evaluate knowledge of computer system security basics.

Evaluation - Grades will be based on the quality and completion of these tasks:

Classroom Interaction.....	10%
Professional Development.....	5%
Chapter Activities/labs	35%
Chapter Questions.....	25%
*Course Project	20%
Portfolio	5%
Total	100%

<p>OSUIT Grading Scale</p> <p>A = 90%-100%</p> <p>B = 80%-89%</p> <p>C = 70%-79%</p> <p>D = 60%-69%</p> <p>F = 59% & below</p>
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*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.
 Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

RECOMMENDED STUDENT COMPETENCIES/SKILLS

Recommended student skills needed for success are the following:

- Ability to access a website (uCertify) and use the site to run computer simulations
- Ability to read and follow step by step instructions within the course site
- Ability you attend class during the required time
- Working understanding of PowerPoint and screen capture software

AUTHORIZED TOOLS

Students may use any/all course materials, including books and notes, while participating in online classroom activities. All quizzes, labs, and written assignments are to be completed independently and any instance of collaboration will be considered academic dishonesty. Collaboration with classmates while studying concepts and network configurations is permitted and encouraged.

LATE WORK

Turning in your properly-executed work early is always acceptable. All exams, assignments, papers and projects must be completed and submitted by the specified due date; late work will not be accepted after the due date unless prior authorization is given.

If the faculty member grades an assignment you have submitted before the due date, you do not have the ability to modify the assignment to increase your grade. Any additional submissions will not be opened, so make sure you are ready to submit your assignments and accept the grade you are given.

TESTING

Quizzes may be timed or proctored during this course.

OTHER LAB AND CLASSROOM POLICIES

No food or drink is allowed in the computer labs

SYLLABUS ATTACHMENT

View the Syllabus Attachment, which contains other important information, by visiting http://osuit.edu/center/student_syllabus_information

Course Schedule

Schedule	Topic	Assignment	Due Date
Week 1	Module One Chapter One – Intro to the World of IT	Assignments Simulator Labs (7) Assessments Review Questions w/Support (15).	9/10/2017
Week 2	Module Two Chapter Two – Connectivity & Chapter Three – On the Motherboard	Learning Assignments Simulator Labs (22) Assessments Review Questions w/Support (20).	9/17/2017
Week 3	Module Three Chapter Four – Intro to Configuration	Learning Assignments Simulator Labs (13) Assessments Review Questions w/Support (20).	9/24/2017
Week 4	Module Four Chapter Five – Disassembly and Power & Chapter Six – Memory	Learning Assignments Simulator Labs (13) Assessments Review Questions w/Support (20).	10/1/2017
Week 5	Module Five Chapter Seven – Storage Devices	Learning Assignments Simulator Labs (12) Assessments Review Questions w/Support (20).	10/8/2017
Week 6	Module Six Chapter Eight – Storage Devices & Chapter Nine – Video Technologies	Learning Assignments Simulator Labs (15) Assessments Review Questions w/Support (20).	10/15/2017
Week 7	Module Seven Chapter Ten – Printers	Learning Assignments Simulator Labs (11) Assessments Review Questions w/Support (20).	10/22/2017
Week 8	Module Eight Chapter Eleven – Mobile Devices	Learning Assignments Simulator Labs (15) Assessments Review Questions w/Support (20).	10/29/2017
Week 9	Module Nine Chapter Twelve – Computer Design and Troubleshooting Review & Chapter Thirteen – Internet Connectivity	Learning Assignments Simulator Labs (12) Assessments Review Questions w/Support (20).	11/5/2017
Week 10	Module Ten Chapter Fourteen – Networking	Learning Assignments Simulator Labs (29) Assessments Review Questions w/Support (20).	11/12/2017
Week 11	Module Eleven Chapter Fifteen – Basic Windows	Learning Assignments Simulator Labs (30) Assessments Review Questions w/Support (20).	11/19/2017

Week 12	Module Twelve Chapter Sixteen – Windows Vista, 7, 8, and 10	Learning Assignments Simulator Labs (28) Assessments Review Questions w/Support (20).	11/26/2017
Week 13	Module Thirteen Chapter Seventeen – OS X and Linux Operating Systems	Learning Assignments Simulator Labs (12) Assessments Review Questions w/Support (20).	12/3/2017
Week 14	Module Fourteen Chapter Eighteen – Computer and Network Security & Chapter Nineteen – Operational Procedures	Learning Assignments Simulator Labs (26) Assessments Review Questions w/Support (20).	12/10/2017
Week 15	Module Fifteen Final Project & Portfolio	Course Project Portfolio	12/12/2017 12/14/2017

Schedule is subject to change at instructor discretion.