

SOUTHERN UTAH UNIVERSITY
DEPARTMENT OF INTEGRATED ENGINEERING
AND TECHNOLOGY

SYLLABUS

EET 2750 PC HARDWARE

A+ CERTIFICATION

3 SEMESTER HOURS

FALL 2005

D.A. WARD

COURSE DESCRIPTION:

A+ Certification is an internationally recognized level of non-vendor based computer technical competence. This course is designed to provide the student with the knowledge necessary to pass the A+ certification exams from Comp TIA. It targets those students desiring to gain technical experience in computer repair, installation and maintenance areas. Areas covered include: safety, configuration, diagnosis, repair, and upgrades.

WHAT A+ CERTIFICATION IS:

A+ Certification is granted when a person passes two on-line exams prepared by the CompTIA organization (the Computing Technology Industry Association) and administered by either Prometric or Vue. There are two exams: the A+ core hardware exam and the A+ OS (operating system) technologies exam. SUU is a member of Comp TIA and students can receive exam voucher discounts of over 50%. The costs of the exams are not covered in this course, if you wish to take the exams you will have to pay for them yourself. You are not required to take the CompTIA exams to pass this course, however, if you do pass them while enrolled in the course you will earn an A grade, if you have not previously received any college credit for A+ certification. Previously A+ certified individuals may be granted credit for this course if they can show that they have not received any other college credit for their A+ certification. The A+ exams are updated every few years and once certified you're A+ certification does not need to be renewed.

2 exams with 80 questions in each

A+ CORE HARDWARE OBJECTIVES:

	<u>Domain</u>	<u>% of Examination</u>
1.0	Installation, Configuration, and Upgrading	35%
2.0	Diagnosing and Troubleshooting	21%
3.0	Preventative Maintenance	5%
4.0	Motherboard/Processors/Memory	11%
5.0	Printers	9%
6.0	Basic Networking	19%
	Total	100%

A+ OS TECHNOLOGIES OBJECTIVES:

	<u>Domain</u>	<u>% of Examination</u>
1.0	OS Fundamentals	28%
2.0	Installation, Configuration, and Upgrading	31%
3.0	Diagnosis and Troubleshooting	25%
4.0	Networks	16%
	Total	100%

THE INSTRUCTOR'S PHILOSOPHY:

Instructor: David A. Ward
Office: 131 Technology Building
Phone: 435-586-7981
Email: ward@suu.edu

I am more than happy to help students at any time in any way that I can. However, I believe that there is a responsibility on the part of the students to get the most that they can from any course. I would recommend that each student do the following in order to gain the most from this course: read each assignment before coming to class, do all homework assignments, never miss a class or a lab, and take detailed class notes.

OFFICE HOURS:

My office is located in the Technology Building in room 131, my phone number is 586-7981, and my email is ward@suu.edu. I am usually in my office from 11:00 am to 12:00 noon daily. However, there may be times when I am called to a meeting or am out of my office for other reasons. If you need to meet with me at a particular time please make an appointment and see that I write it down.

REQUIRED TEXT:

Textbook: Mike Myers' A+ Certification Passport Second Edition by Mike Myers

STUDENT GRADING:

Exams and quizzes	80%
Lab assignments	15%
Attendance	5%

A = 90 to 100%

B = 80 to 89%

C = 70 to 79%

D = 60 to 69%

F = below 60%

ACADEMIC INTEGRITY POLICY:

Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. Students are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, the intellectual property policy, and for information about procedures and about what constitutes acceptable on-campus behavior.

LAB ASSIGNMENTS:

Due dates of the lab assignments will be given as the course progresses. Lab assignments will be graded on the following: correctness of your answers, the write-up of your conclusions, spelling, and grammar. Late assignments will be penalized 20% per day late.

MEETING TIMES:

This class meets on Tuesdays and Thursdays from 2:30 pm to 3:50 pm in room 119 of the Technology Building. Regular attendance of the lectures and labs is required, see student grading.

STUDENT DISABILITY NOTICE:

Students with medical, psychological, learning or other disabilities desiring academic adjustments, accommodations, or auxiliary aids, will need to contact the Southern Utah University Coordinator of Services for Students with Disabilities (SSD), in Room 206 F, Sharwan Smith Center or phone (435) 865-8022. SSD determines eligibility for and authorizes the provision services.

EXAMS AND QUIZZES:

There will be a midterm exam and a final exam. Periodic quizzes may also be given. The midterm and final exams will consist of multiple choice questions. The midterm will be on the A+ hardware core and the final will be on the A+ operating systems core.

FEES:

There is a \$40.00 lab fee for this course which is used to pay for expendable supplies and to purchase equipment and materials needed for the class.

TENTATIVE CLASS AND LAB SCHEDULE

<u>DATE</u>	<u>TOPIC</u>	<u>PAGES TO BE READ FROM THE TEXT PRIOR TO CLASS</u>
<u>WEEK 1</u>		
T Aug 30	Syllabus, introduction to course and course requirements Ports and connectors	Ch 1
R Sep 1	Ports and connectors continued	
<u>WEEK 2</u>		
T Sep 6	Maintenance and safety precautions	Ch 2
R 8	Motherboards, power supplies, and cases	Ch 3
<u>WEEK 3</u>		
T Sep 13	System BIOS and CMOS setup utility	Ch 4
R 15	CPU's	Ch 5
<u>WEEK 4</u>		
T Sep 20	RAM	Ch 6
R 22	IDE mass storage devices	Ch 7
<u>WEEK 5</u>		
T Sep 27	SCSI mass storage devices	Ch 8
R 29	Expansion Bus, system resources, and installing Peripheral devices	Ch 9
<u>WEEK 6</u>		
T Oct 4	Printers	Ch 10
R 6	Portable computers	Ch 11

WEEK 7

T Oct 11 Networks: wired networking Ch 12

R 13 Networks: wired networking Ch 12

WEEK 8 Midterm

T Oct 18 Review for midterm exam
 On Hardware

R 20 Midterm exam

WEEK 9

T Oct 25 Networks: wireless networking Ch 13

R 27 Operating system fundamentals Ch 14

WEEK 10

T Nov 1 Operating systems: Windows in detail Ch 15

R 3 Installing and upgrading Windows Ch 16

WEEK 11

T Nov 8 Networking in Windows Ch 17

R 10 Maintaining, optimizing, and troubleshooting
 Windows 9X/ME Ch 18

WEEK 12

T Nov 15 Maintaining, optimizing, and troubleshooting
 Windows NT/2000/XP Ch 19

R 17 Windows NT Ch 19

WEEK 13

T Nov 22 Lab work on PC's

W, R, and F Nov. 23, 24, and 25 Thanksgiving Recess

WEEK 14

T Nov 29 Lab work on PC's

R Dec 1 Lab work on PC's

WEEK 15

T Dec 6 Lab work on PC's

R 8 Last day of class, review for final exam on OS technologies

FINAL EXAM SCHEDULE:

Friday December 16, 2005, 3:00 pm to 4:50 pm

DISCLAIMER:

Information contained in this syllabus, other than the grading, late assignments, make-up work, and attendance policies may be subject to change with advance notice, as deemed appropriate by the instructor.