

Tri-Rivers Career Center

Course Syllabus

PROGRAM: Computer Networking Electronics Technologies 1 (CNET 1)

COURSE DESCRIPTION:

CNET 1 is the first year of a two year course that teaches students to build, repair and maintain personal computers. In the second year the student will learn to design, install and maintain data networks. The students are prepared to take the A+ Essentials and A+ Practical Applications tests to become CompTIA A+ certified.

CREDIT HOURS: 3

SEMESTER: _____1st _____X 2nd

INSTRUCTOR: Stephen Wren

PHONE: 740-389-4681 ext 274

PREREQUISITE(S): None

ROOM/TIME: 167 11:50 AM - 2:45 PM

OFFICE: Rm 167

EMAIL: swren@tririverscc.org

MAJOR OBJECTIVES

A student completing this course will be able to:

- Install, configure and maintain personal computer components
- Detect problems, troubleshoot and repair/replace personal computer Components
- Install, configure, detect problems, troubleshoot and repair/replace laptop components
- Select and use repair utilities
- Detect and resolve common printer issues
- Select the appropriate commands and options to troubleshoot and resolve problems
- Differentiate between Windows Operating System directory structures (Windows 2000, XP and Vista)
- Select and use system utilities / tools and evaluate the results
- Evaluate and resolve common issues
- Troubleshoot client-side connectivity issues using appropriate tools
- Install and configure a small office home office (SOHO) network
- Prevent, troubleshoot and remove viruses and malware
- Implement security and troubleshoot common issues
- Certify an AC circuit

EMPLOYMENT OPPORTUNITIES

Enterprise technician, IT administrator, field service technician, PC or Support technician

EVALUATION PROCEDURES

ATTENDANCE:

Students are responsible for attending every class and for the material presented. If the student will not be attending class, he or she must follow Tri-Rivers absence procedures by calling in and providing an acceptable written excuse to the main office.

Absences are automatically marked as unexcused.

If the absence is excused, it is the student's responsibility to check his or her grades upon returning to school and inquire about the excused absences and any other discrepancies.

If the attendance office has listed the student as excused then the grade will be changed. If no inquiries are made within 1 week of return, then no corrections will be made.

GRADING PROCEDURES: Daily points 40-60 points per day, quiz points, lab points and tests points

Grading Scale

90 – 100%	A
80 – 89 %	B
70 – 79 %	C
60 – 69 %	D
0 – 59 %	F

Grading Criteria

Daily points	40 -60 points
Labs	5 – 100 points each
Quizzes	5 – 20 points each
Tests	20 – 100 points each
A+ tests	400 points each

AVAILABLE SUPPORT SERVICES:

Learning Center
Technology Resource Center

ADDITIONAL INFORMATION:

Eating and drinking is not permitted in the lab or related room. All copyright laws will be observed. It is illegal to copy most software.

Cell phone usage is not permitted in class. This includes text messaging.

IMPORTANT DATES

2nd Qtr.

January 17	Martin Luther King Day (No School)
February 1	Advanced Placement
February 11	Interim Report
February 17	Parent/Teacher Conferences (3:30-6:30 p.m.)
February 18	Parent/Teacher Conferences (7:30-10:30 a.m.)(No School)
February 21	President's Day (No School)
March 14-18	OGT Assessment
March 18	End of 3rd Quarter
March 21 – March 25	Spring Break (No School)
April 22	Good Friday (No School)
April 29	Interim
May 05	Senior Recognition 7:00 p.m. at The Palace
May 06	Fish Day
May 10, 11	Level 2 Exams
May 24, 25	Level 1 & Transition Exams
May 26	End of 4th Quarter and 2nd Semester
May 26, 27	Makeup Days (if necessary)
May 30	Memorial Day (No School)
May 31 - June 3	Makeup Days (if necessary)

May 31 Great Start 2011 1:00-7:00
June 09 Great Start 2011 7:00-1:00

COURSE RESOURCES:

Andrews, Jean **A+ Guide to Managing and Maintaining Your PC,**
Seventh Edition; Course Technology, Cengage Learning, 2010

Test-Out curriculum for CompTIA A+ Essentials and CompTIA A+ Practical Application

www.comptia.com

www.totalsem.com

www.kuder.com

Course Schedule/Content		
Week	Content/Standard	Material Covered
1	<u>Unit 2 Operating Systems</u>	PC tools / System tools / Users and groups
2	<u>Unit 16 Hardware</u>	BIOS / Motherboards / power supplies / processors
3	<u>Unit 16 Hardware</u>	Memory /expansion cards / video / audio /cooling
4	<u>Unit 16 Hardware</u>	Floppy / PATA / SATA / Optical devices / storage
5	<u>Unit 16 Hardware</u>	File systems / partitions / disks / adding storage
6	<u>Unit 16 Hardware</u>	RAID / disk status / disk optimization
7	<u>Unit 2 Operating Systems</u>	File locations / managing files / NTFS permissions
8	<u>Unit 2 Operating Systems</u>	Shared folders / offline files /
9	<u>Unit 18 Networking</u>	Ethernet / IP / wireless / internet connectivity
10	<u>Unit 18 Networking</u>	SOHO configuration / blue tooth / email / FTP /
11	<u>Unit 18 Networking</u>	Network utilities / troubleshooting / authentication
12	<u>Unit 18 Networking</u>	Firewalls / proxy server / malware / BIOS security
13	<u>Unit 2 Operating Systems</u>	Encryption / preferences and settings / performance
14	<u>Unit 2 Operating Systems</u>	Remote services / system protection / trouble shooting
15	<u>Unit 2 Operating Systems</u>	Devices / applications / printing / system start-up /
16	<u>Unit 2 Operating Systems</u>	Start-up errors / system recovery /
17	All	Review 702 material / practice exams /
18	All	Final exam prep

NOTE: This is a tentative schedule and subject to change at the discretion of the instructor.

LABS/ACTIVITIES:

Lab experiments are performed with student monitors. When the student can perform the lab activity without assistance, they will receive daily point credit or separate Lab point credit.

ASSESSMENTS AND FINALS

Test-Out practice exams are used to monitor overall student progress.

SKILLS FINAL/CERTIFICATION

Comptia A+ Essentials and A+ Practical Applications