



**COURSE DESCRIPTION, OUTLINE, TEACHING PROCEDURES,  
OUTCOMES**

**COURSE TITLE: A+ Certification Preparation – Hardware and Software**

**COURSE DESCRIPTION:**

<http://www.durhamtech.edu/html/current/noncredit/computer.htm#cert>

Basic hardware and software of a PC, including operations and interactions with peripherals, are covered. **Hardware topics** include component identification, the memory system, peripheral installations and configuration, preventative maintenance, diagnostics, and repair. **Software topics** include how to install device drivers, resolve resource conflicts, and configure and optimize operating systems. **PC Fundamentals or equivalent experience** recommended. **Textbook required.**

**RESOURCES AND MATERIALS:**

Required Text: **A+ Certification All-in-One Exam Guide, Sixth Edition**, by Michael Meyers, McGraw-Hill. ISBN-13: 9780072263114

**The textbook is available at the DTCC Bookstore** (at least one week before the class start date): <http://www.durhamtech.edu/html/prospective/bookstore.htm>

Other: **Storage media (e.g. USB flash/thumb/jump drive)**

**TEACHING STRATEGIES: (CHECK THOSE YOU PLAN TO UTILIZE)**

<input checked="" type="checkbox"/> Lecture	<input checked="" type="checkbox"/> Exercises	<input type="checkbox"/> Role-Playing	<input checked="" type="checkbox"/> Small Group Discussion
<input type="checkbox"/> Reports	<input checked="" type="checkbox"/> Tutorials	<input checked="" type="checkbox"/> Audio Visual	<input type="checkbox"/> Programmed Instruction
<input type="checkbox"/> Modeling	<input type="checkbox"/> Field Work	<input type="checkbox"/> Performance	<input type="checkbox"/> Select Teachable Moments
<input checked="" type="checkbox"/> Lab	<input type="checkbox"/> Video Tapes	<input checked="" type="checkbox"/> Demonstration	

**COURSE OUTCOMES:**

**Upon completion of this course, the student should be able to:**

1. Identify and install a CPU, RAM, BIOS, expansion bus, motherboards and power supplies
2. Install hard drives, removable media, and video
3. Understand and support Windows
4. Use the Command line

5. Set up Notebook computers, printers, networking and internet capabilities

#### THE PRIMARY METHOD OF EVALUATION IS :

**If students are able to accomplish 80% of the course objectives**, they will receive a grade of S for Satisfactory, otherwise they will receive a grade of NG for No Grade if they could not meet 80% of the course objectives. If a student misses more than 20% of the class, but is still able to perform 80% of the class objectives, it is up to the instructor if they pass the student or not.

#### ATTENDANCE:

Each student is required to **attend at least 80%** of the scheduled class time to receive a grade of Satisfactory.

#### DURHAM TECHNICAL COMMUNITY COLLEGE POLICIES:

##### **REGISTRATION AND FEES for Computer Training traditional non-credit classes:**

- 1) N.C. Senior Adults 65 or older pay lab and CAPS fees: \$9 (waived course fees)
- 2) All other students will pay the **total fee** (includes course fee, lab fee and CAPS fee) as listed with the course description:  
<http://www.durhamtech.edu/html/current/noncredit/computer.htm>
- 3) All students must **complete a registration form** three days before the class starts:

##### **Registration Procedures and links to Registration Forms:**

<http://www.durhamtech.edu/html/corporate/policies.htm#registration>

##### **Course Registration Information:**

**Program Assistant:** Herleesha Anderson  
[andersonh@durhamtech.edu](mailto:andersonh@durhamtech.edu)

##### **Computer Program Information:**

**Program Director:** Becky Roehrs  
[roehrsb@durhamtech.edu](mailto:roehrsb@durhamtech.edu)

##### **DTCC Continuing Education Policies and Procedures:**

<http://www.durhamtech.edu/html/corporate/policies.htm>

##### **DTCC Appropriate Use of Computing Resources Policy:**

<http://www.durhamtech.edu/html/prospective/studentervicesc.htm#computing>

##### **DTCC Student Code of Conduct:**

<http://www.durhamtech.edu/html/prospective/studentervicesb.htm#conduct>

##### **LINK TO STATEMENT OF STUDENTS WITH DISABILITIES:**

<http://www.durhamtech.edu/html/prospective/studentervices.htm#disability>

##### **STATEMENT OF STUDENTS WITH DISABILITIES:**

Students who require academic accommodations due to any physical, psychological, or learning disability should request assistance from a disability services counselor. Likewise, students requiring emergency medical attention due to a chronic health condition are encouraged to notify a disability services counselor of their condition. Counselors can be contacted by calling the

Continuing Education

Computer Training

Disability Services coordinator at 919-536-7208.or by visiting the Student Development Office,  
Wynn Center, Room 1309.