

**COURSE SYLLABUS**

**CPMT 1305 (3:2:4)**

**IT Essentials: PC Hardware and Software**

**Industrial Manufacturing and Emerging Technologies**

**Industrial Technology Department**

**Technical Education Division**

**Levelland, Reese and Plainview Campus**

**SOUTH PLAINS COLLEGE**

**SPRING 2019**

## COURSE SYLLABUS

COURSE TITLE: CPMT 1305 IT Essentials : PC Hardware and Software

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OFFICE HOURS: By appointment

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#### I. GENERAL COURSE INFORMATION:

- A. **Course Description:** Provides comprehensive overview of computer hardware and software and an introduction to advanced concepts addressed by CISCO CCENT certification.
- B. **Course Learning Outcomes:** Describe the internal components of a computer; assemble a computer system; install an operating system; and troubleshoot using system tools and diagnostic software.
- C. **Course Competencies:** Students must demonstrate the ability to master the concepts and techniques covered in the classroom and lab. Each student must attain a minimum level of 70% as an average on written tests, both daily and final, and on assigned lab projects.
- D. **Tutoring:** Students who do not pass their first exam will be required to attend three hours of tutoring each week until they pass their exam. This is a course requirement and will be reflected in the course grade.

#### II Course Outline

**Students will build a computer and install a motherboard, floppy and hard drives, CD-ROM, and video cards; install and manage Windows operating systems; add peripherals and multimedia capabilities; demonstrate knowledge of local-area network architecture, networking protocols, the OSI Model, and TCP/IP utilities; connect the computer to a local area network and to the Internet.**

- 1: Introduction to the Personal Computer
- 2: Safe Lab Procedures and Tool Use
- 3: Computer Assembly - Step by Step
- 4: Basics of Preventive Maintenance and Troubleshooting
- 5: Fundamental Operating Systems
- 6: Fundamental Laptops and Portable Devices
- 7: Fundamental Printers and Scanners
- 8: Fundamental Networks
- 9: Fundamental Security
- 10: Communication Skills
- 11: Advanced Personal Computers

- A. **Academic Integrity:** It is the aim of the Industrial Manufacturing and Emerging Technologies faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own work which he or she not honestly performed is regarded by the

faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. Students should refer to the SPC General Catalog policy regarding consequences for cheating and plagiarism ( see “Academic Integrity” as well as “Student Conduct” sections in the college catalog). At times, working with other students is encouraged for some assignments and meets SCANS competencies C-9 through C-14. If you have a question as to whether you may work with other students on any assignment, ASK YOUR INSTRUCTOR.

- B. **SCANS and Foundation Skills:** The appropriate Competencies and Foundation Skills (SCANS) have been integrated into the IMET program. The following Competencies and Foundation Skills have been specifically integrated into the Course. C2, C4, C20 and F11
- C. **Verification of Workplace Competencies:** As a Capstone Experience, the students must take and pass with a score of 75 or better all sections of the Associate level of the Certified Electronics Technician (CET) Pre-Exam sponsored by the International Society of Certified Electronics Technicians.

## II. **SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS:**

- A. **Textbook and Other Materials:** IT Essentials Course Booklet, Version 5 by Cisco Networking Academy ISBN: 978-1-58713-309-1
- B. **Tools:** ANSI approved Safety Glasses, Digital Multi-meter, Standard pliers, Needle nose pliers, Basic set of screwdrivers, Wire strippers, Pocket knife, Wire cutters, USB Jump-drive (Memory Stick), Earphones with standard audio jack for listening to computer audio files with, Ear Plugs or some type of hearing protection.
- C. **South Plains College Attendance Policy**

Students are expected to attend all classes in order to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus.

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student’s responsibility to complete work missed within a reasonable period of time as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students who enroll in a course but have “Never Attended” by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of “X” or “F” as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student’s responsibility to be aware of that policy.

It is the student’s responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

### **Absence for Military Service**

In accordance with Texas Education Code Section 51.9111, a student is excused from attending classes or engaging in other required activities, including exams, if he or she is called to active military service of a reasonably brief duration. The maximum time for which the student may be excused has been defined by the Texas Higher Education Coordinating Board as “no more than 25 percent of the total number of class meetings or the contact hour equivalent (not including the final examination period) for the specific course or courses in which the student is currently enrolled at the beginning of the period of active military service.” The student will be allowed a reasonable time after the absence to complete assignments and take exams.

### **Religious Holy Days**

In accordance with Texas Education Code Section 51.911, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester in which the absence will occur. Forms for this purpose are available in the Dean of Students Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Texas Tax Code Section 11.20.

### **Pregnancy**

In accordance with Title IX of the Education Amendments of 1972, in the event of pregnancy, termination of pregnancy or recovery from any of these conditions a student's absences shall be excused, as deemed necessary by the student's physician (Title IX.) The student should contact the SPC Title IX coordinator for further assistance.

- D.** The following attendance guidelines have been established for the IMET program:
1. **Absent** from class is defined as "not present and ready to participate during scheduled lecture or lab times."
  2. **Tardy** is defined as "not present at the designated starting time of the lecture or lab." **Three tardies will equal one absence and will be treated the same as any absence.**
  3. When a student accumulates **six** absences minimum course objectives cannot be met and student will be withdrawn from the course.
- E.** **Assignment policy:** All required work must be turned in on time in order that the student may benefit from the corrections and study for future examinations. Any work that is handed in post the due date or tests missed will be accepted only at the discretion of the Instructor, Points will be taken from all late assignments or test accepted by the Instructor.
- F.** **Grading Policy:** Daily tests average will equal 33.3% of final semester grade lab grade will equal 33.3% of final semester grade and final test grade will equal 33.3% of final semester grade. Written and oral assignments will be averaged in with daily test average and lab grade will consist of lab projects. The lab grade will also include an end of semester Instructor assessment that will be used to adjust the lab grade up or down by up to 20%. This is used to account for class participation, safety violations, end of class clean up as well as other criteria deemed important by the instructor such as overall attitude and demeanor.
- G.** **Special Requirements:** Students in the Industrial Manufacturing and Emerging Technologies program will be required to follow safety procedures while in the classroom and lab. Chemical hazards and appropriate SDS safety practices will be stressed as part of the safety program.
- H.** **Cell phones**  
No cell phones or other electronic devices are allowed in the classroom or during lectures.  
Cell phones may be used during break or during labs.
- I.** **Class Dress Code**  
No open toed shoes, sandals or flip-flop styled shoes.  
No baggy, saggy or drooping clothes. This includes wearing pants pulled down in a "Low Slung Style".  
For safety considerations standard shop acceptable attire is required.  
If you have any doubts about what is acceptable see the instructor for clarification.
- J.** **Tobacco Use**  
No tobacco use of any kind is permitted inside the buildings.  
This includes smokeless tobacco.  
No spitting in the trashcans  
No spitting in the urinals or toilets  
No spitting on the floor (Including inside the lab/Shop areas)  
No use of cups or bottles as spittoons.

## **SPC Standard Disability Statement**

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

## **Non-Discrimination Statement**

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College -1401 College Avenue, Box 5, Levelland, TX 79336, 806-894-9611

## **Diversity Statement**

In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

## **Campus Concealed Carry**

***South Plains College permits the lawful carry of concealed handguns in accordance with Texas state law, and Texas Senate Bill 11. Individuals possessing a valid License to Carry permit, or the formerly issued Concealed Handgun License, may carry a concealed handgun at all campus locations except for the following.***

- ***Natatorium***

***For a complete list of campus carry exclusions zones by event, please visit <http://www.southplainscollege.edu/campuscarry.php>***

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the

SPC policy at:

([http://www.southplainscollege.edu/human\\_resources/policy\\_procedure/hhc.php](http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php))

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

#### SCANS COMPETENCIES

##### **RESOURCES: Identifies, organizes, plans and allocates resources.**

- C-1 **TIME**--Selects goal--relevant activities, ranks them, allocates time, and prepares and follows schedules.
- C-2 **MONEY**--Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives
- C-3 **MATERIALS & FACILITIES**--Acquires, stores, allocates, and uses materials or space efficiently.
- C-4 **HUMAN RESOURCES**--Assesses skills and distributes work accordingly, evaluates performances and provides feedback.

##### **INFORMATION--Acquires and Uses Information**

- C-5 Acquires and evaluates information.
- C-6 Organizes and maintains information.
- C-7 Interprets and communicates information.
- C-8 Uses computers to Process information.

##### **INTERPERSONAL--Works With Others**

- C-9 Participates as members of a team and contributes to group effort.
- C-10 Teaches others new skills.
- C-11 Serves clients/customers--works to satisfy customer's expectations.
- C-12 Exercises leadership--communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.
- C-13 Negotiates--Works toward agreements involving exchanges of resources resolves divergent interests.
- C-14 Works with Diversity--Works well with men and women from diverse backgrounds.

##### **SYSTEMS--Understands Complex Interrelationships**

- C-15 Understands Systems--Knows how social, organizational, and technological systems work and operates effectively with them
- C-16 Monitors and Correct Performance--Distinguishes trends, predicts impacts on system operations, diagnoses systems' performance and corrects malfunctions.
- C-17 Improves or Designs Systems--Suggests modifications to existing systems and develops new or alternative systems to improve performance.

##### **TECHNOLOGY--Works with a variety of technologies**

- C-18 Selects Technology--Chooses procedures, tools, or equipment including computers and related technologies.
- C-19 Applies Technology to Task--Understands overall intent and proper procedures for setup and operation of equipment.
- C-20 Maintains and Troubleshoots Equipment--Prevents, identifies, or solves problems with equipment, including computers and other technologies.

#### FOUNDATION SKILLS

##### **BASIC SKILLS--Reads, writes, performs arithmetic and mathematical operations, listens and speaks**

- F-1 Reading--locates, understands, and interprets written information in prose and in documents such as manuals, graphs, and schedules.
- F-2 Writing--Communicates thoughts, ideas, information and messages in writing, and creates documents such as letters, directions, manuals, reports, graphs, and flow charts.
- F-3 Arithmetic--Performs basic computations; uses basic numerical concepts such as whole numbers, etc.
- F-4 Mathematics--Approaches practical problems by choosing appropriately from a variety of mathematical techniques.
- F-5 Listening--Receives, attends to, interprets, and responds to verbal messages and other cues.
- F-6 Speaking--Organizes ideas and communicates orally.

##### **THINKING SKILLS--Thinks creatively, makes decisions, solves problems, visualizes, and knows how to learn and reason**

- F-7 Creative Thinking--Generates new ideas.
- F-8 Decision-Making--Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.
- F-9 Problem Solving--Recognizes problems and devises and implements plan of action.
- F-10 Seeing Things in the Mind's Eye--Organizes and processes symbols, pictures, graphs, objects, and other information.

- F-11 Knowing How to Learn--Uses efficient learning techniques to acquire and apply new knowledge and skills.
- F-12 Reasoning--Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

**PERSONAL QUALITIES--Displays responsibility, self-esteem, sociability, self-management, integrity and honesty**

- F-13 Responsibility--Exerts a high level of effort and preservers towards goal attainment.
- F-14 Self-Esteem--Believes in own self-worth and maintains a positive view of self.
- F-15 Sociability--Demonstrates understanding, friendliness, adaptability, empathy, and politeness in group settings.
- F-16 Self-Management--Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.
- F-17 Integrity/Honesty--Chooses ethical courses of action.