



Purpose: It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

Course Title - Personal Computer Hardware

Course Prefix and Number - ITSC 1325

Department – Computer Science

Division – Technology & Business

Course Type: (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y or N)

Semester Credit Hours #: Lecture Hours #: Lab/Other Hours #: 3:2:2

Equated Pay hours for course - 3

Course Catalog Description - Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.

Prerequisites/Co-requisites – None

List Lab/ Other Hours
Lab Hours 2
Clinical Hours 0
Practicum Hours 0
Other (list) 0

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Date: 07-19-2015

Reviewed by Department Head: Donna Schilling

Date: 07-19-2015

Accuracy verified by Division Chair: David Kucera

Date: 8/12/15

Approved by Dean or Vice President of Instruction: Leigh Ann Collins

Date: 3-4-16



I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

Topics Covered

- Configure and apply BIOS settings.
- Differentiate between motherboard components, their purposes, and properties.
- Compare and contrast RAM types and features.
- Install and configure expansion cards.
- Install and configure storage devices and use appropriate media.
- Differentiate among various CPU types and features and select the appropriate cooling method.
- Compare and contrast various connection interfaces and explain their purpose.
- Install an appropriate power supply based on a given scenario.
- Evaluate and select appropriate components for a custom configuration, to meet customer specifications or needs.
- Given a scenario, evaluate types and features of display devices.
- Identify connector types and associated cables.
- Install and configure various peripheral devices.

II. Course Learning Outcomes

Learning Outcomes	Methods of Assessment
<p>Upon successful completion of this course, students will:</p> <p>Assemble/setup and upgrade personal computer system; diagnose and isolate faulty components; optimize system performance; and install/connect peripherals.</p>	<p>All outcomes will be assessed by one or more of the following:</p> <p>Projects Tests and Quizzes Lab Assignments Final Exam</p>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

- TestOut PC Pro - English 4.1.0
- 978-1-935080-42-8
- Andrews, Verge. CompTIA A + Guide to Managing and Maintaining Your PC; Course Technology; ISBN-13: 978-1-133-13508-1; ISBN-10 1-133-13508-0
- USB drive
- High-speed Internet Connection

IV. Suggested Course Maximum - 20

V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

- Sufficient hardware components for each student to build a functioning dual boot computer with Windows (current version) and another operating system, such as Ubuntu.
- A PC for each student
- Data Projector

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

Course Requirements		<i>Grading System –</i>	
Labs	05-30%	100 -90	= A
Tests	10-30%	89 - 80	= B
Homework	0-30%	79 - 70	= C
Project & Presentation	10-30%	69 - 60	= D
Final Exam	05-10%	and below	= F
Attendance & Participation	0-20%		

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:
 - Basic Intellectual Competencies
 - Perspectives
 - Exemplary Educational Objectives

- **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.