



## Administrative Master Syllabus

### Course Information

<b>Course Title</b>	Personal Computer Hardware
<b>Course Prefix, Num. and Title</b>	ITSC 1325 - Personal Computer Hardware
<b>Division</b>	Technology and Business
<b>Department</b>	Information Technology and Networking
<b>Course Type</b>	WECM Course
<b>Course Catalog Description</b>	Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.
<b>Pre-Requisites</b>	None
<b>Co-Requisites</b>	None

### Semester Credit Hours

<b>Total Semester Credit Hours (SCH): Lecture Hours:</b>	3:2:2
<b>Lab/Other Hours</b>	
<b>Equated Pay Hours</b>	3
<b>Lab/Other Hours Breakdown: Lab Hours</b>	2
<b>Lab/Other Hours Breakdown: Clinical Hours</b>	0
<b>Lab/Other Hours Breakdown: Practicum Hours</b>	0
<b>Other Hours Breakdown</b>	0

### Approval Signatures

Title	Signature	Date
<b>Department Head:</b>	Muna Saqer, Comp Sci and IT&N Program Director	11-16-2023
<b>Division Chair:</b>	David Kucera, Technology & Business Division	11-16-2023
<b>VPI:</b>		



## **Additional Course Information**

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

- 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.

### **Course Learning Outcomes:**

**Learning Outcomes – Upon successful completion of this course, students will:**

- Assemble/setup and upgrade personal computer systems
- Diagnose and isolate faulty components
- Optimize system performance
- Install/connect peripherals

**Methods of Assessment:**

Projects  
Tests and Quizzes  
Lab Assignments  
Final Exam

### **Required text(s), optional text(s) and/or materials to be supplied by the 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 or latest edition
- USB drive
- High-speed Internet Connection

### **Suggested Course Maximum:**

20

**List any specific 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



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

- Labs.....5-30%
- Tests..... 10-30%
- Homework .....0-30%
- Project & Presentation ...10-30%
- Final Exam.....5-10%
- Attendance & Participation.0-20%

**Grade System:**

- 90-100%..... =A
- 80-89%..... =B
- 70-79%..... =C
- 60-69%..... =D
- Below 60% ..... =F

**Curriculum Checklist:**

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
  - Critical Thinking
  - Communication
  - Empirical & Quantitative Skills
  - Teamwork
  - Social Responsibility
  - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist