



Course Information

Course Title	Personal Computer Hardware
Course Prefix, Num. and Title	ITSC 1325 – Personal Computer Hardware
Division	Technology & Business
Department	Computer Science
Course Type	WECM Course
Course Catalog Description	Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

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

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

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 system
- 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
- 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 05-30%

Tests 10-30%

Homework 0-30%

Project & Presentation 10-30%

Final Exam 05-10%

Attendance & Participation 0-20%

100 -90 = A

89 - 80 = B

79 - 70 = C

69 - 60 = D

and below = 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