

## Tentative Course Syllabus

Week of	Topic	Assignments
Sept 12 <sup>th</sup>	Introduction to the course Processors and definitions Components of a PC.	
Sept. 19 <sup>th</sup>	Anatomy of a Computer Components and functions. Building computers.	Completely dismantle a fully working computer and reassemble. You need to be very careful and pay attention to all the details when disassembling.
Sept 26 <sup>th</sup>	Building a computer	Put together a component list (shopping list) for building a <b>Gaming</b> quality computer under \$3000. All components must be available on-line or locally, and the list must be in the form of Excel Spread Sheet, detailing Manufacturer, Model and part number, Price, Vendor for each component. A separate text document giving brief technical reasoning for the choice of motherboard, CPU and Video card etc. A hard copy of this is <b>Due Oct. 6.</b>
Oct. 10 <sup>th</sup> Oct. 24 <sup>th</sup>	Computer network. IP address, binary digits, hexadecimal system, Basics of subnetting	
Oct. 31 <sup>st</sup>	How to build a Hover Craft. Discussion: Components and mechanics.	Gather information on how a Hover Craft works. Propose a well thought plan showing a sketch of the craft with all components clearly marked. <b>Due Nov. 8<sup>th</sup>.</b>
Nov. 7 <sup>th</sup>	Discussion: Refining plans, component list, building Hover Craft.	
Nov. 14 <sup>th</sup>	Team competitions	Building a hovercraft from household items
Nov. 21 <sup>st</sup>		Write a report describing step by step procedure for building a riding Hover Craft (methods, materials and an instruction manual clearly explaining the procedure for building the device) Due <b>Nov. 25<sup>th</sup>.</b>

