The course is designed to provide participants with a broad overview of computer concepts including:

- Key terminology and components of computer hardware, software, and operating systems.
- Computer architecture, peripheral devices, networking components,
- System software, information system analysis, application software including word processing, database management, spreadsheet, and presentation software.
- The Internet and Web page development.


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Lecture time: MW 3:00 - 4:15pm
Lecture place: PARK 124

Topics in this course include the following:

- History of Computer systems
- Binary system
- Computer architecture, peripheral devices, networking components.
- System software, information system analysis, application software including:
  - Database management
  - Spreadsheet
  - Presentation software.
  - The Internet and Web page development.

Topics by chapters

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Learning Objectives

- Students will be able to see the development of the current computer technology in the historic perspective.
- Students will be able to decide between various computer platforms most suited for their use.
- Students will be able to explain various memories and storage devices, including random access, read only memory, secondary storage, and unit of measurement for memory and storage.
- Students will be able to use common and some sophisticated functionalities of Microsoft office applications including word processing, database management, spreadsheet, and presentation software.
- Students will be able to understand and explain the differences between freeware, shareware, and copy righted software.
- Students will be able to discuss different type malicious software and viruses and means of protecting the computer and information from attacks.
• Students will be able to explain different type of networks based on logical arrangements as well as proximity of the nodes.
• Students will be able to explain the history of Internet development and some of the technology utilized.
• Students will be able to understand functionality of servers and clients hardware and software.
• Students will be able to develop simple web pages using application tools.
• Students will be able to discuss issues surrounding Artificial Intelligence.
• Students will be able to develop database tables and create queries in Microsoft Access.
• Students will be able to develop spreadsheets in Microsoft Excel.
• Students will be able to develop presentations in Microsoft PowerPoint.

Assignments, Lab work and Tests

Students will have:

- Five lab assignments @ 50 points each 250
- Three exams @ 100 points each 300
- Three Lab quizzes@ 50 points each 150
- Five in-class activities @ 10 points each 50
- Five in-lab activities @ 10 points each 50
- Mid-term Paper 25

Total 825

Grading Scale

Final grade will be based on the following scale:

- 91 – 100% (750 and above) A
- 81 – 90% (668 and above) B
- 70 – 80% (577 and above) C
- 59 – 69% (487 and above) D