

Digital Photography Course Outline  
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- 1) Reasons for needing digital photography.
  - a) Newsletters
  - b) Flyers
  - c) Web Sites
  - d) Brochures
  
- 2) Ways of getting digital pictures into your PC.
  - a) Film Photography to CD
    - PRO's:
      - I) Good picture quality.
      - II) Relatively fast turn around time. ( 1 hr. Lab)
    - CON's:
      - I) You can't preview pictures.
      - II) Can get to be quite costly.
  
  - b) Film Photography to Upload Service.
    - PRO's:
      - I) Good picture quality.
    - CON's:
      - I) You can't preview pictures.
      - II) Can get to be quite costly.
      - III) Generally takes several days.
      - IV) Takes time to download when ready.
  
  - c) Film Photography to Scanner.
    - PRO's:
      - I) Good picture quality.
    - CON's:
      - I) You can't preview pictures.
      - II) Can get to be quite costly.
      - III) Can be time consuming.
  
  - d) Digital Photography.
    - PRO's:
      - I) Good picture quality.
      - II) You can preview pictures immediately.
      - III) Picture download is quick and easy.
      - IV) All digital cameras come with some type of software.
      - V) No film to buy.
      - VI) Pictures can be printed at most photo labs.
      - VII) Easily email/upload pictures to other sources.
      - VIII) Many digital cameras make movie clips w/sound.

CON's:

- I) Digital cameras cost more to buy.
- II) Digital cameras consume a lot of battery power.
- III) Digital cameras don't come with much memory.

3) Memory type.

a) Internal – No memory card required.

PRO's:

I) No memory card to lose

CON's:

I) Need to download when full to take more pictures.

II) No memory card to take to 1 hour lab for prints.

b) External (Also called digital film) – Memory card required.

PRO's:

I) Memory cards can usually hold more pictures.

II) You can easily switch to a new card when a card is full.

III) You can take your memory card to 1hr. lab or copy shop.

IV) Memory cards are small and easily portable.

V) Memory cards are useable in other equipment and can be used to hold documents and sound files as well.

CON's:

I) Can't take pictures without memory card.

II) Memory cards are small and are easy to lose.

4) Resolution

a) What is resolution?

I) What is a pixel?

II) PPI

i) for screen resolution

ii) for print resolution

III) What is a Mega Pixel?

i) mega pixel as it relates to image/file size.

b) Why is that important?

I) Resolution vs. Picture Quality

i) for print

ii) for web

II) Resolution vs. Quantity of pictures for given memory.

5) Zoom Types

a) What is optical zoom?

b) What is digital zoom?

c) Which is better?

6) Picture Comparisons

- a) Film picture quality.
- b) Digital picture quality.

7) Software

- a) High end
  - I) Photoshop
- b) Moderately priced
  - I) PaintShop Pro
  - II) Photoshop Elements
- c) Shareware
  - I) ACDSee
  - II) Ultimate Paint (up until recently freeware)
    - a) [www.ultimatepaint.com](http://www.ultimatepaint.com)
- d) Freeware
  - I) Paint/Paintbrush
    - a) comes with windows
  - II) Irfanview
    - a) [www.irfanview.com](http://www.irfanview.com)
    - b) can use Adobe filters.
  - III) Photo Studio
    - a) <http://www.stuffware.co.uk/photostudio/>
    - b) creates mosaic pictures
  - IV) Image Analyzer (have experimented with)
    - a) <http://meesoft.logicnet.dk/Analyzer/index.htm>
  - V) Oriens Enhancer Gold (have experimented with)
    - a) <http://www.oriens-solution.com>
    - b) powerful software
    - c) a lot of effects
    - d) a little on the slow side
  - VI) Nonags site - Freeware