Langara College

# Department of Computing Science & Information Systems

# CPSC 2130 – Multimedia and Animation

###### **Lab4: Working on bitmapped graphics**

**Instructions [35 Marks]:**

1. Create a new folder named **Lab4** to store all the work below.
2. [**10 marks**] Use a graphics program to compose an image
3. Download the files **Robin.jpg** and **GaribaldiLake.jpg** from D2L
4. Remove the necklace from Robin’s neck in the image Robin.jpg.
5. Trace out Robin and copy and paste him on the ridge at the front left corner of the picture GaribaldiLake.jpg.
6. Put the words Garibaldi Lake above the lake. Give the words a ripple style and a drop shadow.
7. [**5 marks**] Download the image **CoupleBefore.jpg** and use some graphical techniques to impove the quality of the image.
8. [**5 marks**] Catch/find a digital image which has some flaws (such as red eye, dust or scratches) on it. Then use a graphics program to remove or correct the flaws.
9. [**5 marks**] Catch/find a nighttime street image with moving cars and lit street lights. Use a graphics program to produce motion blur effect on the moving cars and glowing effect on street lights. Add other effects if necessary.
10. [**5 marks**] (filename: **FakePicture.psd**) Create a fairly complicated fake picture of your own. The picture should look reasonably real and interesting. Upload all the original image files. Don’t merge or fatten any layers in your project so that the original design can be seen.
11. [**5 marks**] For all the projects above, create a single document to describe how your work is created and what techniques are used. Make sure upload all the image files before and after manipulations to D2L.

**What to hand in**

Zip the folder lab4 with all the required files inside. Submit the zipped fileto D2L.

**When to hand in**

By 11:59pm, Sunday, January 29, 2017.

7)  
To solve number 2 I used Healing Brush in Replace mode to carefully replace the nicklace with samples without it in a way that looks convincing. Then use the Spot Healing brush to make an average rendering on the area so it looks more smooth.

Then use the quick selection tool with the additive or subtractive method to select and subsequently copy Robin from the image. After that open the another image and paste it on top. (Another way might be just place him using File\Place and then deleting the non desired areas with the magic eraser tool). Whenever you copy the image you will want to apply free transform on Robin’s layer.

For Garibaldi text: create another layer, write down using the Text Tool and then Right click over the text layer to open the Blinding options. Once open apply Drop Shadow. For the Ripple style one simple way its to open the filter suite and apply distort\ZigZag to create the watery texture.

To solve number 3 I used Adjustments to work with the levels of the picture so I can bring some light to it. Also worked the Brightness/Contrast.

Subsequently I added a PhotoFilter to warm it up and finally Reduced the noise on the Noise filter to eliminate part of the artifacts and the excesive noise.

For mark 4 I repeated a process similar than the necklace exercise for Robin.jpg. (Work with the healing brush and the spot healing brush).

For the mark number 5 the idea was mostly use Smudge tool on lighten and darken mode regulating the hardness of the tool and the proper size of the object to get the idea of the movent.