

Unit 2 Summary Form (USF)

for *optional* note-taking – print this for your use

The use of this form is *optional*, I provide it just as a study aid. *You may find it handy to print this form and use it to take hand-written notes as you read the material in Chapter 2 of the course workbook. This form is not submitted or graded and it plays no role in determining your course grade, but completing this may help you gather and better understand the things you need to know in order to do the repeatable online learning exercises.* Using this form can also help you get the most out of CSC-200!

NOTE: To completely fill out this form you need to have read each project in each unit even though you are required to only actually do some of them. This is because important background information is included in each project description that is not duplicated elsewhere.

1. Explain **how and why** in the early days of commercial computing the word “run” was used as a **noun**.

2. Explain in simple terms what the commonality is between the vacuum tube and the transistor as these relate to building digital computers.

3. Explain the difference between “batch” and “interactive” (online) processing modes and **give an example of the kind of work** each mode is most efficient for.

4. **Supercomputers** and **embedded** computers are at opposite ends of the spectrum as far as computer hardware goes. Describe:

a) the **characteristics** of each of these types of computers

b) how they **differ from ordinary PCs and Macs**

c) a **typical application** of each.

5. Describe in 10 words or less **the general trend that has occurred in electronic computer hardware** since it was invented in the 1940s. Yes, in 10—ten—words or less, so choose them carefully! *(Note that if you have a hard time doing this look you should look up the definition of “trend” in trying to form this answer. A trend does not focus on one event but describes the general direction of something.)*

6. Describe in 10 words or less **the general trend that has occurred in electronic computer software** since the 1960s. Yes, in 10—ten—words or less, so choose them carefully! *(Note that if you have a hard time doing this look you should look up the definition of “trend” in trying to form this answer. A trend does not focus on one event but describes the general direction of something.)*

7. Describe in detail the actions to take to **physically reduce** one digital picture of large size (let's say 3200 x 2400 pixels in size) to about 960 x 720 pixels in size so that it occupies less disk space without the use of a digital photo editor (that is, using only a common tool of the Microsoft Office suite). Caution: it's not enough to simply reduce the display of the image, you have to reduce the amount of space (bytes) that the image occupies!

8. Identify and explain **several** specific steps to take to **minimize the risk** of getting computer viruses into your computer and to **insure getting the most recent version** of software from the web when you seek and download open source software.