INFO1111: Computing 1A Professionalism

2021 Semester 1

Project 2B

1. Overview

This assignment is designed to help you gain an understanding of the different non-computing electives available and demonstrate your understanding and skills in Git and LaTeX.

Project 2B will run from week 7 to 12 and will be only for those students who achieved level 1 in Project 1 (though these students may also choose to do Project 2A). This project will require strong group collaboration, teamwork and strong practical skills.

2. Background

As a group you will need to research the different non-computing electives available at The University of Sydney and make recommendations on which non-computing electives might be best suited to be taken by students studying each of the 4 main majors.

As a team,

1. Research the different electives available
2. Identify two electives for each of the four computing majors from elsewhere in the University, best suited to be taken by students studying each of the four majors
3. Allocate a major to each team member

As an individual,

4. Each team member will then need to make a case as to why the two chosen electives might be the best suited (i.e. most relevant and useful) to be taken as part of the Bachelor of Advanced Computing degree and as a student of the assigned major.

You will need to create a report written in LaTeX. This will require a set of LaTeX files stored in a shared git repository: these files will include

- a master file that contains the shared elements for the report (an introduction; the inclusion of each separate recommendation section; a section on contributions outlining how the group was managed; and a bibliography). All members of the group will need to contribute to this.

- a set of individual "recommendation" files (one for each student). The recommendation section contributed by each member will need to be 1000-2000 words and should describe the basis under which the electives are considered to be the most appropriate choice for students in the given major.

Step 1:

The university of Sydney offers a number of different electives to choose from. These electives are from different areas such as

- Architecture and Interaction Design
- Arts and Social Sciences
- Business and Commerce
- Education and Social Work
- Engineering
- Health, Medicine and Dentistry
- Music
- Science, Agriculture, Environment and Veterinary Science.

As a team, research the different electives offered in these areas.

Step 2

Once your team has researched the different electives offered in these areas, select two non-computing electives that might be best suited to be taken by students studying each of the majors.

- Consider what area these electives are from
- Consider what the electives are
- Consider what knowledge and capabilities will be developed by undertaking these electives
- Consider how these electives might complement the knowledge and capabilities developed as part of the relevant major
- Consider if the knowledge and capabilities developed by undertaking these electives will assist in your professional career
- Consider if there are any opportunities resulting from undertaking these electives

The electives should be selected based on the extent to which they will provide the most benefit to students in the specified major.

Step 3

Determine which major is allocated to each team member. Your team will have to work together to determine who will be allocated to which major. This does not have to be the major you are studying. Provide a table summarizing which major was allocated to each team member.

Step 4

As an individual, each team member will then need to make a case as to why these two electives might be the best suited (i.e. most relevant and useful) to be taken as part of the Bachelor of Advanced Computing degree and as a student of the assigned major.

- Consider what area these electives are from
- Consider what the electives are
- Consider what knowledge and capabilities will be developed by undertaking these electives
- Consider how these electives might complement the knowledge and capabilities developed as part of the relevant major
- Consider if the knowledge and capabilities developed by undertaking these electives will assist in your professional career
- Consider if there are any opportunities resulting from undertaking these electives

3. Git Instructions

You team should create a shared git repository that is used in the generation of the report. Each member of the group should demonstrate the ability to:

- Clone the repository so that can work on the files locally
- Pull any changes made by other members of the group to keep their local copy up to date
- Push any changes that they make to the main repository, so that they can be shared with others.

For level 3 or higher, you should also be able to demonstrate:

- The ability to create separate branches so that your changes can be made without impacting on the master branch
- Resolve conflicts that occur during merges

4. Additional information

Submission Details

Your submission should include:

- Access to your git repository so that the various branches, commits etc. can be assessed
- Submission of your final report via Canvas

Levels

Achieving Level 1 requires basic git and LaTeX capability, and a rudimentary case study.

Achieving Level 2 requires basic git and strong LaTeX with a case study that showed insight that is well justified.

Achieving Level 3 requires strong git skills (merging, proper use locally, etc.), strong LaTeX and an excellent case study.

Achieving level 4 requires all of Level 3, as well as an exceptional level of insight into the nature of the relevant majors, as well as outstanding team work.