University *of* La Verne

Computer Science & Computer Engineer Department
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Page 1 of 2

Dear students:

Due to COVID-19, you are not able to meet on campus to take your comprehensive exam. Therefore, the Computer Science program faculty decided to change the format of the exam to **virtual oral exam using PowerPoint presentation** instead.

Computer Science Comprehensive Exam is scheduled on Friday, 5/7/2021 from 4:00 – 8:00 PM

Instructions:

1. Answer your concentration question. If you have double concentrations, then you have a choice of selecting one of your concentrations.
2. You have one month to prepare for your presentation.
3. Your answers to your question must be limited to 5-7 minutes.
4. After your presentation, the faculty will ask you questions related to all the questions below.
5. If you have time conflict with the scheduled day, contact me with the reason and we will try to accommodate you.
6. Do not hesitate to contact your advisor and ask for clarifying questions.

We hope you find this alternative process fair. We wish you the Best of Luck!

Questions

To put a closure to your educational journey, please present 5-7 minutes but no more than 10 minutes maximum.

1. What distinguishes you from the rest of the students who are graduating with you in this major?

2. **Software Concentration:** How did you become interested in your concentration, what have you learned in your concentration, and what plans do you have for your future?

3. **Internet Programming Concentration:** What have you learned in your concentration classes, what knowledge and what kind of soft and hard skills have you gained in your concentration classes and your senior project if you completed?

4. **Engineering or Information Science Concentration:** Reflect, Identify, and Elaborate: (a) Reflect on the courses (CMPS / CMPN courses) you have taken at the University of La Verne. Explain how you learned and acquired the Program Educational Objectives and Student Learning Outcomes (see page 2). (b) Identify the classes and which assignments. (c) Elaborate by explaining and demonstrating your findings. (Feel free to use any visual aid tools to help you organize and summarize your findings).

Given:

The Computer Science and Computer Engineering department published the following Educational Objectives and Learning Outcomes on ULV Website https://artsci.laverne.edu/compsci/outcomes-objectives/

Program Educational Objectives

1. Graduates will be able to apply key computer science knowledge, concept, principles, theories, applications, and research in order to accomplish technology related tasks.
2. Graduates will demonstrate the necessary critical thinking skills to solve computing based problems, and professional skills such as leadership, teamwork, oral and written communications.
3. Graduates will become productive practitioners with an awareness of legal, high ethical and professional standards.
4. Graduates will be prepared to pursue lifelong learning and continuous improvement of their knowledge and skills in diverse industries with the highest professional and ethical standards.

Student Learning Outcomes

Adopted from ABET Evaluation Criteria 3 including both General and Program Criteria:

1. Ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Ability to communicate effectively in a variety of professional context.
4. Ability to recognize professional responsibilities and make informed judgment in computing practice based on legal and ethical principles.
5. Ability to function effectively as a member or leader of a team engaged in activities appropriate to program's discipline.
6. Ability to apply computer science theory and software development fundamentals to produce computing-based solutions.