

Topics for Co-op Preparation and Seminar Student Presentations

1. What is user interface design? What types of career paths are offered in this field? What types of jobs/companies/industries? Are there any unique skills needed to be successful in this field?
2. What is information science? What are some possible career paths? How can a degree in information science be used in the field of management consulting?
3. What kinds of specialized positions are available for computer scientists in hospitals, medical research, or drug development organizations? Compare IT related pay scales in these industries.
4. CCIS has many dual degrees in multimedia fields. What kinds of jobs are there in this career other than developing computer games? What are some top companies in this field? Where (location-wise) is the best market?
5. Gaming – what is the future? How do you get a first job in gaming? How is the industry changing and how can you prepare for this career? What skill sets are needed? What is Boston Post Mortem?
6. What kinds of jobs are available for Computer Scientists in research? What types of jobs/companies/industries? Is a bachelor's degree enough? If appropriate, is a master's degree enough?
7. What is Computer Forensics, and how is it different from Computer Security? What types of jobs/companies/industries?
8. Training specialists – in addition to knowing the software, what skills are needed? How can you get these skills? What are typical career paths for training specialists?
9. A new high demand/high paying career area is data center management. What skills do they seek? Who hires them, and what entry level positions might lead to this career?
10. How does one become an IT Project Manager? What types of jobs/companies/industries? What undergraduate major is best and what skills are needed?
11. If I get a programming job, what non-technical skills will I need to develop to be successful in the industry? Why are these important and how might I be using them?
12. Software Developers - what are they and what do they do? What are the different components to a software development cycle? What are career paths for software developers? What types of jobs/companies/industries?

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13. There has been a resurgence in interest in the field of artificial intelligence. What is AI? What is driving that interest in this field and what are the skill sets? What kind of jobs in AI might be open to undergraduates?
14. What is Bioinformatics? What are some of the different computer related jobs in Bioinformatics? What companies are hiring and what backgrounds do they seek?
15. Social networking. What and where are the jobs? Are we in a social networking bubble and what is the source of revenue streams to support social networking?
16. Describe some leading robotics companies. What types of projects are they working on and are these military and/or civilian? What job skills do they seek and how is the job outlook?
17. Networking and systems. What do companies look for in entry level positions (internships/co-ops), as well as more advanced positions? Are certifications outside of a B.S or M.S. important? Discuss IS vs. CS or any two majors that are a contrast as, i.e. systems and networking positions.
18. What is outsourcing? In the computer science field, what types of jobs get outsourced and how, if at all, has it affected the job market? When do companies choose to outsource? Do they find it effective?
19. You may create your own topic as long as it is related to careers or areas of specialization within Information Technology. This must be approved by your professors.
20. What is Information Assurance? What are some possible career paths? How can a degree in Information Assurance be used in the field?
21. What is Health Informatics? What are some possible career paths? How can a Health Informatics be used in the field.