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survey title: Survey of Computer Science Graduating Seniors design survey collect responses analyze results

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1. Illinois Institute of Technology Survey of Computer Science Graduating Seniors As part of the CS Department's process for continuous improvement of the program, we are requesting your help as a graduating senior with a BS in Computer Science. Please take a few minutes to complete this survey. Each page of the survey relates to a Program Outcome defined for each BS in CS student to achieve. Thank you. Matthew Bauer, Computer Science, Director of Undergraduate Programs Add Question Here Edit Question Move Copy Delete Your Name (optional):

Add Question Here Split Page Here Edit Question Move Copy Delete Your permanent email address (optional): Add Question Here

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2. Apply Basic Knowledge

a. An ability to apply knowledge of computing and mathematics appropriate to the discipline.

Add Question Here

Edit Question Move Copy Delete Add Logic * 1) The Computer Science laboratory experiences were positive learning experiences. Strongly Agree Agree Neutral Disagree Strongly Disagree

Add Question Here Split Page Here

Edit Question Move Copy Delete Add Logic * 2) How many programming languages do you feel you have a working knowledge with? 1 2

3

4 or more

Please list the languages.

Add Question Here Split Page Here

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*** 3) The Computer Science courses provided you with a working knowledge of at least one database, operating system, and network technology currently used in practice.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Please explain:

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3. Problem Analysis

b. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.

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*** 1) The Computer Science problems and projects assigned were open ended enough to allow for variations in solution approaches.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 2) The Computer Science courses presented problems that required you to consider hardware, software and system (databases, etc.) tradeoffs to identify a solution.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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4. Problem Solving

c. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.

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*** 1) The Computer Science courses required you to "build" enough applications, systems and components.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 2) Which courses and laboratories have given you the best opportunity to solve computer science problems?**

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*** 3) Creativity was rewarded in Computer Science problem solutions.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Please explain:

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5. Working on a team.

d. An ability to function effectively on teams to accomplish a common goal.

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*** 1) There are enough team activities in courses in the Computer Science program.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Explain:

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*** 2) The relative participation from team members is appropriate in most cases.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 3) You have an opportunity to practice leadership in your team experiences.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 4) The group work was productive - compared to individual effort.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 5) Your IPRO courses were a good team experience.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Explain:

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6. Understand ethical and professional responsibility

e. An understanding of professional, ethical, legal, security, and social issues and responsibilities.

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*** 1) Do you belong to any professional societies in Computer Science?**

Yes

No

Which ones?

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*** 2) Were you encouraged by the faculty to join any professional societies?**

Yes

No

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*** 3) The coverage of ethics was adequate in your Computer Science courses.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Explain:

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*** 4) Have you read the ACM code of ethics?**

Yes

No

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7. Ability to communicate

f. An ability to communicate effectively with a range of audiences.

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*** 1) The Communication (C) courses required in the BS in CS degree (CS100, CS350, CS430, CS485, CS487,**

your communication skills.

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 2) How did your IPRO experiences affect your perception of the importance of communication?**

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*** 3) Explain any other experiences that helped your communication skills.**

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*** 4) To what level do you feel communication was emphasized in the program?**

Not Enough

Just Right

Too Much

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8. Understanding of global and societal context.

g. An ability to analyze the local and global impact of computing on individuals, organizations and society.

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* 1) How you perceive your profession and your individual contribution to the profession as having an impact on society?

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* 2) The Computer Science program helped shape your understanding of your societal responsibility.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

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* 3) The humanities and social sciences courses that you took influenced your thinking about the role of computer science in society.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

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* 4) Your IPROs and CS courses that you took influenced your thinking about the role of computer science in society.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

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9. Recognition of life-long learning.

h. Recognition of the need for, and an ability to engage in, continuing professional development.

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* 1) In the last year have you attended at least one lecture in the field of computer science that was not part of the curriculum?

Yes

No

*** 2) Have you browsed the internet or in the library for computer science information or a technical article that was not related to your classes?**

Yes

No

*** 3) In your computer science assignments did you ever go beyond the assignment just because it interested you?**

Yes

No

Explain:

*** 4) What periodicals, both technical and non-technical, do you subscribe to?**

Page #10

10. Ability to use modern skills and techniques

i. An ability to use current techniques, skills, and tools necessary for computing practices.

*** 1) The use of application software tools was emphasized enough in course work.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

*** 2) Programming was emphasized enough in your coursework, including choosing the best programming paradigm for the problem?**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Please explain:

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*** 3) The systems developed were "real world", utilizing current technologies.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

Please explain:

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11. Applying Theory in Design

j. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

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*** 1) The curriculum provided an appropriate blend of theory and application.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 2) The program improved your ability to synthesize and organize ideas, information, and experiences to be able to solve new and more-complex problems.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 3) Which courses and educational experiences best promoted your ability to design and conduct experiments?**

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12. Design Experience

k. An ability to apply design and development

varying complexity.

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*** 1) Your Computer Science course containing a major design experience was challenging.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 2) Your Computer Science course containing a major design experience was relevant.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 3) Your Computer Science course containing a major design experience integrated previous learning.**

Strongly Agree

Agree

Neutral

Disagree

Strongly Disagree

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*** 5) What could be done to make the course better?**

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13. Prepared for graduate study

I. Be prepared to enter a top-ranked graduate program in Computer Science.

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*** 1) Did you consider graduate school as an option after graduation?**

Yes

No

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*** 2) If yes to #1, did you apply to graduate school?**

Yes

No

If yes, where did you apply?

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*** 3) If yes to #2, were you accepted to graduate school?**

Yes

No

If yes, where were you accepted?

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Thank you again for your assistance.

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