What did you learn? How did this course change you?

Course

Evaluate the course overall.: **3 (good)**

I learned what P and NP were, and a lot of stupid puns in CS now make sense. Honestly I don't really care about theory, but for people who do this was probably a wonderful and transformative experience.

Evaluate the course overall.: **5 (excellent)**

I learned a lot from this course. Mostly, I learned how to truly dissect seemingly impossible mathematical ideas and equations, which I imagine will be a very useful skill.

Evaluate the course overall.: **3 (good)**

NAND!!!

Evaluate the course overall.: **5 (excellent)**

Boaz, you singlehandedly renewed my love of CS. I'm definitely thinking more about studying theory in particular after this class.

Evaluate the course overall.: **4 (very good)**

I have a better understanding now of what theoretical computer science is interested in.

Evaluate the course overall.: **4 (very good)**

I learned a great deal about the fundamentals of theoretical computer science. This course made me much more interested in theoretical CS.

Evaluate the course overall.: **4 (very good)**

I learned that CS theory is really fascinating and that P my or may not be equal to NP.

Evaluate the course overall.: **4 (very good)**

I learned about the theory of computation. This course made me realize I do not want to study the theory of computation.

Evaluate the course overall.: **5 (excellent)**

Learned lots of theoretical computer science and algorithmic thinking.

Evaluate the course overall.: **5 (excellent)**

NAND, NAND++, NAND<<, Reductions, NP v P, Halting, RNG

Evaluate the course overall.: **4 (very good)**

I'm 100% more likely to try out harder and more domain specific theoretical CS classes like the ES quantum class launching next semester. Such an interesting way to change a person's paradigm on the world -- I honestly really liked starting from the basis of logic gates (NAND) as opposed to the contemporary turing machine approach

Evaluate the course overall.: **3 (good)**

Good overview of current topics in theoretical CS, from NP and uncomputability to randomized algorithms, crypto, and quantum. Definitely feel like I came away with a much broader understanding of CS as a field, and am now more interested in continuing to take CS theory classes.

Evaluate the course overall.: **3 (good)**

computing is really important and actually kind of cool

Evaluate the course overall.: **3 (good)**

I learned about the basics of computational theory and found that I am a little more interested than I thought I was in the basis and evolution of theory in computer science.

Evaluate the course overall.: **4 (very good)**

I learned a lot about the theory behind computer science and why things are a certain way or another.

Evaluate the course overall.: **3 (good)**

It made me realize that I need to plan my courses better.

Evaluate the course overall.: **3 (good)**

Complexity theory

Evaluate the course overall.: **4 (very good)**

Foundations of theoretical CS. Completely changed the way I think quantitatively.

Evaluate the course overall.: **4 (very good)**

I learned how to reason about things.

Evaluate the course overall.: **5 (excellent)**

Better understanding of large theoretical CS topics.

Evaluate the course overall.: **2 (fair)**

P != NP. I learned to panic less when given problem sets beyond my ability and to reread difficult text before deciding that I really don't understand. Also how to find TFs that I can understand.

Evaluate the course overall.: **3 (good)**

I learned the limits of computation and some of the most important theorems in computer science, such as P=NP problem, halting problem, reductions, time complexities etc. I think this is a very important course for any computer scientist.

Evaluate the course overall.: **4 (very good)**

I learned a lot about mathematical computation theory. NAND, Turing Machines, and you can do computation with a lot of other things. Like birds and water. Now whenever I look at something, I see a computer. Even if it's something that's not a computer. Like birds or water.

Evaluate the course overall.: **4 (very good)**

I learned a lot about computation and how it relates to the real world, including computability and efficiency which i found to be intriguing. The new units on randomness, cryptography, and quantum were quite captivating.

Evaluate the course overall.: **3 (good)**

I never ever ever ever want to do theory. I will never take another math class again

Evaluate the course overall.: **5 (excellent)**

I learned a concrete way of thinking about the complexity of a wide range of problems and models of computation. This course has really sparked my interest in cryptography and other math and theory-based parts of CS.

Evaluate the course overall.: **5 (excellent)**

I learned the basics of theoretical CS, I improved by logic skills through proofs.

Evaluate the course overall.: **1 (unsatisfactory)**

How to think about theoretical CS at a very complex level.

Evaluate the course overall.: **5 (excellent)**

Learned about theory of computation.

Evaluate the course overall.: **5 (excellent)**

It totally changed the way I think about the world and computer science and Boaz does a great job of explaining things. I am interested in many new problems that I wasn't aware of before and I found confidence in my theoretical computer science abilities.

Evaluate the course overall.: **5 (excellent)**

I am interested in taking more theory classes and writing a thesis/maybe going to graduate school in CS. I learned so much about my own love of math and proofs.

Evaluate the course overall.: **3 (good)**

It was super cool to see computing built from the ground up using the NAND programming languages. It gave me a deeper intuition for the theoretical aspects related to coding.

Evaluate the course overall.: **2 (fair)**

Learned the basics of theoretical CS.

Evaluate the course overall.: **4 (very good)**

I learned the language and theoretical foundation underlying many of the ideas I had associated with the field of computer science, but never had the background to understand in a deep way. Now they're no longer just a bunch of buzzwords I hear dropped in conversation randomly and are actually topics that I now have the opportunity to explore more in the future.

Evaluate the course overall.: **5 (excellent)**

Now I know more about theoretical computer science and how I work.

Evaluate the course overall.: **3 (good)**

The course gave me a better understanding of computational theory.

Evaluate the course overall.: **5 (excellent)**

Learned about how technology works at the deeper level!

Evaluate the course overall.: **5 (excellent)**

I really learned how to think computationally and understand foundational ideas in computer science that will help me throughout the rest of my academic career. I learned how to logically step from what I knew for sure and use those results in creative ways to prove something I didn't know. I think I have gained invaluable skills in this sense and in general how to approach a rigorous course with better study habits. CS 121 definitely enhanced my appreciation for and interest in theory, and although I may not end up going to grad school or deciding to pursue theoretical CS research, it is a field that I would still love to learn more about now.

Evaluate the course overall.: **2 (fair)**

I didn't learn much of value. Having taken other departmental computer science courses (such as cs124 and cs134), half of the material was already familiar and I was too jaded to have a great attitude about learning the rest.

Evaluate the course overall.: **2 (fair)**

I have a better understanding as to probabilistic computing, P vs NP, and computability. Turing completeness is cool

Evaluate the course overall.: **5 (excellent)**

I loved this course. Before taking it, I did not know how much I would like theoretical computer science, but now I know that I am fascinated by it. It was incredible how we proved so much about computation, starting at the basics, in a single semester. I believe I now have a more holistic understanding of computer science after taking cs121.

Evaluate the course overall.: **4 (very good)**

Theory

Evaluate the course overall.: **4 (very good)**

Must take because required but this revamped course doesn't seem too applicable or helpful, and is time-consuming compared to what I heard about last year's 121.

Evaluate the course overall.: **4 (very good)**

The subject matter was fascinating, and the course was an effective survey of CS theory. Definitely made me interested in learning more.

Evaluate the course overall.: **5 (excellent)**

i found a love for theoretical cs! and found faith in my ability to do proofs.

Evaluate the course overall.: **3 (good)**

I learned how foundational theoretical computer science is for so many things in the world.

Evaluate the course overall.: **4 (very good)**

That the operations you require to perform any computation is incredibly minimal, and that it is incredibly hard to prove things about the relationships between complexity classes.

Evaluate the course overall.: **3 (good)**

The theoretical foundations of computation.

Evaluate the course overall.: **3 (good)**

I learned some fundamental information about computation. These ideas, particularly complexity classes and uncomputability, change how I approach how algorithms are constructed.

Evaluate the course overall.: **3 (good)**

I learned a lot about theoretical computer science and now am even more excited for future computer science courses and to be concentrating in computer science.

Evaluate the course overall.: **3 (good)**

I learned proof-writing, as well as the definitions and implications of the different complexity classes.

Evaluate the course overall.: **4 (very good)**

discovered a part of CS i did not expect to exist

Evaluate the course overall.: **4 (very good)**

I thought this course gave a nice strong foundation in the major topics of theoretical computer science, a lot of which I'd heard of before but definitely hadn't studied very in-depth. I thought it gave a nice range of topics and definitely got me excited about computer science and eager to learn more.

Evaluate the course overall.: **5 (excellent)**

The course taught me a lot about theoretical computer science, and I even learned new programming languages called NAND, NAND++/<<! It taught me how to think algorithmically and approach problems in a logical manner.

Evaluate the course overall.: **3 (good)**

I think this course taught me to think more in depth about the principles of computer science, and its possibilities and limitations.

Evaluate the course overall.: **2 (fair)**

Learned about computability which is cool. It also fulfills a requirement so it changed me in that im now closer to my major.

Evaluate the course overall.: **5 (excellent)**

Better understanding of computation

Evaluate the course overall.: **4 (very good)**

I have a strong foundation in the principles of theoretical computer science. Thank you!