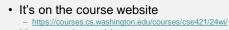


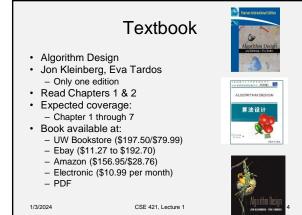
3



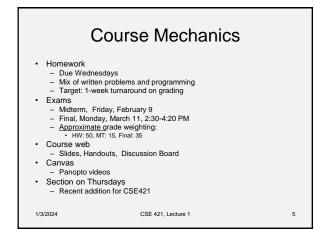
- Homework weekly
  - Due Wednesdays
  - HW 1, Due Wednesday, January 10, 2024.
  - It's on the website
- Homework is to be submitted electronically - Due at 11:59 pm, Fridays. Five late days.
- Edstem Discussion Board
- Panopto Videos

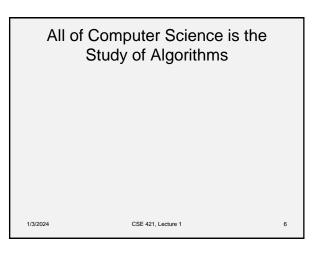
1/3/2024

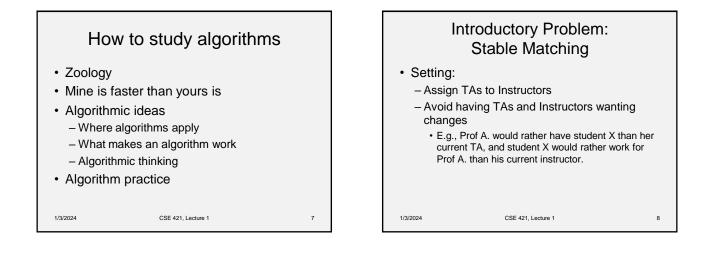
CSE 421, Lecture 1

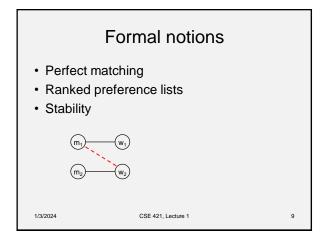


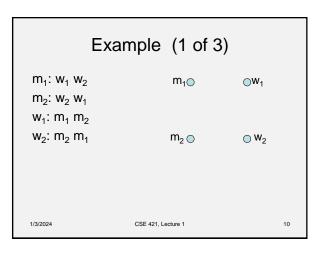
CSE 421 Course Introduction

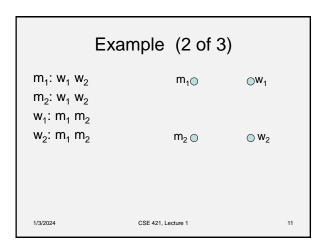


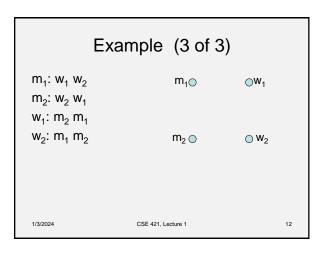


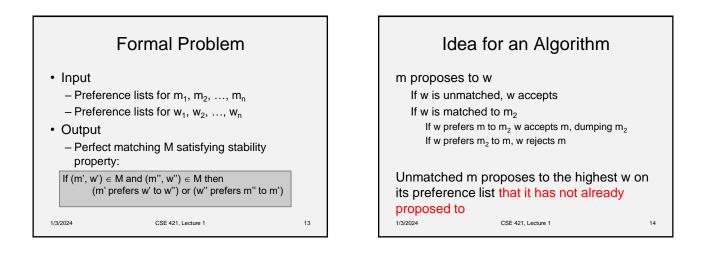


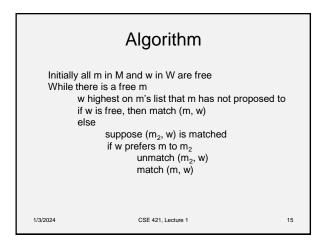




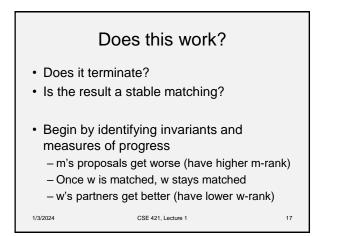


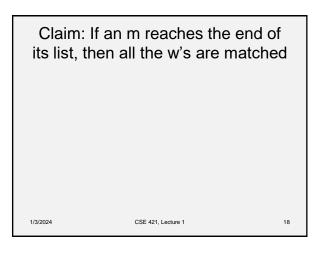


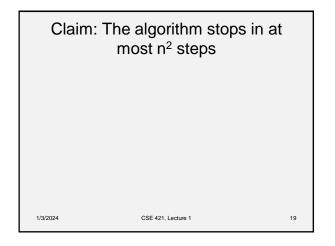


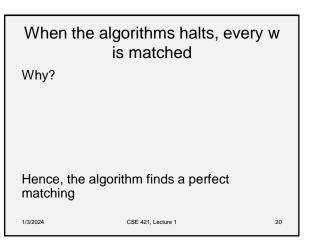


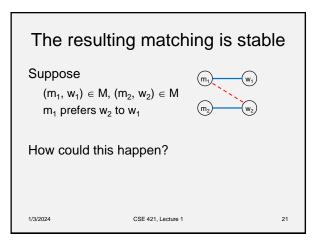
	Example	
m <sub>1</sub> : w <sub>1</sub> w <sub>2</sub> w <sub>3</sub> m <sub>2</sub> : w <sub>1</sub> w <sub>3</sub> w <sub>2</sub> m <sub>3</sub> : w <sub>1</sub> w <sub>2</sub> w <sub>3</sub>	$m_{1\bigcirc}$	⊖W <sub>1</sub>
$w_1: m_2 m_3 m_1$ $w_2: m_3 m_1 m_2$	$m_{2}$ $_{\odot}$	⊖ w <sub>2</sub>
w <sub>3</sub> : m <sub>3</sub> m <sub>1</sub> m <sub>2</sub>	$m_3 \bigcirc$	$\bigcirc$ W <sub>3</sub>
1/3/2024	CSE 421, Lecture 1	16











R	esult	
<ul> <li>Simple, O(n<sup>2</sup>) algorithm to compute a stable matching</li> <li>Corollary <ul> <li>A stable matching always exists</li> </ul> </li> </ul>		
1/3/2024 CSE	421, Lecture 1 22	