CS314: Lecture Note (Lecture #8, February 1, 2024)

1. **Ask students to come forward and pick up:**

   - Attendance card
   - Project #1 handout

2. **Announcements:**

   - Quiz #4 is scheduled today

3. **Process Management & Scheduling Algorithms**

   - Process synchronization and semaphores
   - Quiz #4 question: #12 through #11

     #12: Which process scheduling algorithms can cause "process starvation" (select all that apply)?

     (1) FCFS
     (2) RR
     (3) SJF
     (4) SRTF

4. **Project #1**

   - fork system call
   - spin-wait
   - (process deadlock)
   - A sample C source code (with_semaphore.cpp)
     (a) Shared-memory keys
     (b) Semaphore keys

5. **Quiz #4 (10 to 15 minutes)**

   - A timekeeper wanted