

# **EECE.3170: Microprocessor Systems Design I**

## Fall 2016

# Lecture 6: Key Questions

## September 16, 2016

3. Explain the operation of the XCHG instruction.

4. Explain the operation of the LEA instruction.

5. **Example:** Given the initial memory state below:

	Lo		Hi
0x528000	50	88	31 A3
0x528004	B2	FF	0F 7D
0x528008	07	D0	BE 22
0x52800C	11	96	00 14

Show the results of the following short instruction sequence.

```
MOV    EAX, 0x528000
MOV    EBX, [EAX+2]
XCHG   BL, BH
LEA    EDX, [EAX+8]
MOV    ECX, [EDX-3]
```