

REQUIRED BACKGROUND

ECE 690 is the most advanced Computer Architecture course that presents recent advances in the field. Therefore, graduate students must have at least the following background in order to take this course:

- Microprocessor architecture (CPU registers, ALU, control unit, internal bus)
- Assembly language programming (actual programming)
- Microprocessor pipelining (basic knowledge of linear pipelining)
- Computer systems design (basic knowledge of what components form a computer system, how they are interconnected, how they interact)
- Memory hierarchy design (basic architecture of cache and main memory components)
- Virtual memory design (basic knowledge)

Without an undergraduate degree in Computer Engineering, students must first take ECE 684 (Advanced Microprocessor Systems) before taking ECE 690.

Please, do not register for ECE 690 without this background.