

CE7304 - Advanced Computer Architecture

[CE 7304](#) ([EEDG 7304](#)) Advanced Computer Architecture (3 semester credit hours) Advanced research topics in multiprocessor, GPU/GPGPU, storage-class non-volatile memory, main memory, network, and reconfigurable architectures. Focuses on current research in the area of computer system architecture to prepare students for a career in computer architecture research. Course will use articles from current technical literature to discuss relevant topics, such as digital signal processors, VLIW, and SIMD architectures, GPU and non-volatile memory architectures, low-power architectures, application-specific processors, and system on chip architectures. Prerequisites: [CS 5348](#) and [EEDG 6304](#) and knowledge of C/C++. (3-0) R