

# ENGINEERING, MECHATRONIC SYST (ENMT)

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**ENMT 3220 Mechatronics II - Real-Time Systems (4 Credits)**

Real-time systems require timely response by a computer to external stimuli. This course examines the issues associated with deterministic performance including basic computer architecture, scheduling algorithms, and software design techniques including data flow diagrams, real-time data flow diagrams, state transition diagrams, and petri nets. In the lab portion of this class, students program a microcontroller to interact with mechatronic devices. Prerequisite: ENCE 3210.

**ENMT 3800 Topics (Mechatronics) (1-4 Credits)**

Various topics in mechatronics system engineering as announced. May be taken more than once. Prerequisite: varies with offering.

**ENMT 3991 Independent study (1-5 Credits)**

Topics in mechatronics engineering investigated under faculty supervision. May be taken more than once. Students must obtain and complete an Independent Study form from the Office of the Registrar. Prerequisite: permission of instructor.