

EECP 3171	Microprocessor Systems and Interfacing	3 Credit Hours
Prerequisites:	EECP 2270	
Goal	To provide students with an understanding of microprocessor-based systems and their use in instrumentation/control/communications/ and computing systems.	
Objectives		Outcomes
<p>This course should enable the student to:</p> <ol style="list-style-type: none"> 1. Investigate microprocessor-based systems. 2. Produce software for microprocessor-based system. 3. Interface microprocessor-based system. 		<p>A student who satisfactorily complete the course should be able to:</p> <ol style="list-style-type: none"> 1. Compare types of micro-processor-based systems, 2. Investigate three typical applications of microprocessor-based systems, 3. Design software to a given specification using a structured design techniques, 4. Write programs to implement designs using appropriate computer language, 5. Test software to ensure it meets the given specifications, 6. Interface external devices to a microprocessor-based system using a programmable parallel interface device, 7. Interface external devices to microprocessor-based system using programmable serial interface device, 8. Design and build a simple non-programmable parallel port, 9. Interface external devices to a microprocessor-based system using the parallel port.