

Tool and Die (TDM)

TDM 201 Tool & Die Laboratory I

3 Hours

Prerequisites: None
6 hours weekly (0-6)

The student will be introduced to the concepts and principles involved in basic die construction. Students will be required to demonstrate their ability to generate CNC programs and to operate conventional as well as CNC machine tools in the manufacturing of die components. Precision grinding applications will be emphasized in the construction of tool and die components.

TDM 201A Tool & Die Laboratory IA

3 Hours

Prerequisites: None
6 hours weekly (0-6)

The student will be introduced to the concepts and principles involved in basic die construction. Students will be required to demonstrate their ability to generate CNC programs and to operate conventional as well as CNC machine tools in the manufacturing of die components. Precision grinding applications will be emphasized in the construction of tool and die components.

TDM 202 Tool & Die Laboratory II

3 Hours

Prerequisites: MAC 154, 156, 157 or consent of instructor
6 hours weekly (0-6)

Students will be required to demonstrate their ability to generate CNC programs and to operate conventional as well as CNC machine tools in the manufacturing of die design and components in relationship to blanking, progressive, or forming dies, precision die grinding applications, and precision measuring and inspection.

TDM 202A Tool & Die Laboratory IIA

3 Hours

Prerequisites: MAC 154, 156, 157 or consent of instructor
6 hours weekly (0-6)

Students will be required to demonstrate their ability to generate CNC programs and to operate conventional as well as CNC machine tools in the manufacturing of die design and components in relationship to blanking, progressive, or forming

dies, precision die grinding applications, and precision measuring and inspection.

TDM 203 Nontraditional Machining

3 Hours

Prerequisites: MAC 159, 161 or consent of instructor

4 hours weekly (2-2)

This course will introduce the student to the machining methods that are currently being used and/or developed for manufacturers. Topics to be discussed will include EDM processes, chemical machining, lasers, and rapid prototyping production. The lab will allow the student to receive hands-on training in programming, set-up, and machining with a wire EDM.