

LABORATORY DEMONSTRATING ASSIGNMENTS

2025 - 2026 Academic Session

Fall Term 2025 (Sept.-Dec.)	Winter Term 2026 (Jan.-April)
<p>ME 4P03 – Fourth Year Laboratory</p> <p style="text-align: center;">Dr. Ching</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation/Grading 52 hrs. (estimates)</p> <p>Beam in Bending and Torsion (D10) Digital Control System, Part I (D13) Robot Programming (D15) Heat Exchanger (H2) Oscillation of a Mass Spring System (D7) Lab Float Lab Float Lab Float</p>	<p>ME 4P03 – Fourth Year Laboratory</p> <p style="text-align: center;">Dr. Ching</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation/Grading 52 hrs. (estimates)</p> <p>Dynamic Vibration Absorber (D8) / Water Hammer (F11) Plastic Bending (PB) / Modal Analysis (MA) Design of Experiment (DOE) / Surface Generation in a Machining Process (SG) Bone Implant and Biomechanics (BI) Digital Control System, Part II (D14) Thermal System Simulation (TSS) Lift Coefficient of an Airfoil (F16) Lab Float Lab Float Lab Float Lab Float</p>
<p>ME 3M03 – Third Year Laboratory</p> <p style="text-align: center;">Dr. Ching</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation/Grading 52 hrs. (estimates)</p> <p>Drill Press (M1) Lathe (M2) Milling Machine (M3) Diesel Engine (T1) Statically Indeterminate Structure (D4) Uniaxial Tensile Test (P8) Lab Float Lab Float Lab Float Lab Float</p>	<p>ME 4FM3 – Advanced Instrumentation and Sensing for Thermo-Fluids</p> <p style="text-align: center;">Dr. Morton</p> <p>Demonstrating @ 1 hr. / week Preparation/Grading 117 hrs.</p> <p>Arduino firmware development; Basic prototyping circuit design & hand-soldering microelectronics; Sensing: pitot tube/surface pressure, temperature, multi-axis accelerometer/gyro, humidity, barometric pressure, strain.</p>
	<p>ME 3M03 – Third Year Laboratory</p> <p style="text-align: center;">Dr. Ching</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation/Grading 52 hrs. (estimates)</p> <p>Drag on Spheres (F18) Plastic Properties (P5) Parallel Series Pump Test (F12) Resistance Spot Welding (RSW) Reynolds Belt (F20) Lab Float Lab Float Lab Float</p>

	<p>ME 2B03 – Mechanical Measurements</p> <p>Dr. Salaudeen</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise General ME Expertise</p> <p>General ME Expertise @ 65 hrs.</p>
	<p>ME 2BA3 – Mechanical Measurements</p> <p>Dr. Motamed</p> <p>Demonstrating 13 weeks @ 6 hrs. / week Preparation / Grading 52 hrs.</p> <p>General ME Expertise General ME Expertise General ME Expertise</p> <p>General ME Expertise @ 65 hrs.</p>