

---

**Ph.D.**  
**Ergonomics & Safety Option**

---

**Ph.D. in Mechanical Engineering**

**Prerequisites:**

**M.S. Degree (Engineering)** including the following (or equal)

<b>Course No.</b>	<b>Course Name</b>	<b>Credits</b>
ESS 6560	Experimental Design and Analysis	3
ME 6100	Ergonomics	3
ME 6110	Introduction to Industrial Safety	3
ME 6120	Human Factors Engineering	3
ME 6960-4	Work Physiology and Occupational Heat Stress	3
FPMD 6750	Fundamentals of Industrial Hygiene	2
FPMD 6759	Occupational Safety & Health Field Trips	1
Subtotal program prerequisite credits		18

**Program Requirements:**

<b>Course No.</b>	<b>Course Name</b>	<b>Credits</b>	
ME 6130	Design Implications for Human Machine Systems	3	
ME 7100	Advanced Ergonomics Occupational Biomechanics	3	
ME 7105	Advanced Ergonomics Occupational Biomechanics LAB	1	
ME 7110	Systems Safety	3	
ME 7960	Computer Applications and Research Methods in Health and Safety	3	
ME 7120	Musculoskeletal Functional Anatomy for Engineers	3	
BIOEN 6210	Biomechanics (BIOEN)	3	
PHYSL 5100	Carpal Tunnel Syndrome	2	
FPMD 6300	Epidemiology I	3	
ED PSYCH 7010	Quant Meth I, Inferential Statistics	3	Or equal
ED PSYCH 7020	Quant Meth II, ANOVA and Multiple Regression	3	Or equal
STATISTICS	Statistics (elective)	3	
Subtotal Course Hours		33	
ME 7970	Dissertation (Ph.D.)	14	
Total Semester Hours		47	