Hypersonic Flows
MECH 6390

Days:	MW (12:00-1:20p)
Instructor:	Ahsan R. Choudhuri, Ph.D.
Office Hours:	By appointment (Brenda Sanchez: 747-6906 or bsanchez@utep.edu)
Text Books:	*Hypersonic and High-Temperature Gas Dynamics, Third Edition* John D. Anderson Jr. ISBN (print): 978-1-62410-514-2 *Selected Aerothermodynamic Design Problems of Hypersonic Flight Vehicles* Claus Weiland and Ernst Hirschel ISBN (print): 978-1-56347-990-8
Objectives:	This is a doctoral-level guided study course focused on introductory fundamental and applied concepts of hypersonic flows. Topics include hypersonic vehicles concepts, hypersonic shock, and expansion-wave relation and viscous hypersonic flow.
Prerequisite Concepts:	Compressible Flow Theories *Chapter Twelve: Cengel Y. A. and Cimbala J. M., Fluid Mechanics Fundamental and Applications, 2017, Fourth Edition, McGraw-Hill Inc. NY.*
Grading Scheme:	Mid-Course Reports (3) 75% Final Report (1) 25% A (≥90%); B(≥75%); C (≥65%); D (≥55%); F (<55%)

Late Submission Policy: Late submission of homework and projects will not be allowed unless medical and emergency reasons exist.

Academic Misconduct: Students are encouraged to work together to discuss the subject. However, all graded materials must represent the student individual work. Scholastic dishonesty is the attempt of any student to present as his or her own work of another, or any work which he has not honestly performed, or attempting to pass any examination by improper means. Scholastic dishonesty is a serious offense and will not be accepted. Academic misconducts will be handled according to the current university policy.

Reasonable Accommodation Policy: Any student in this course who has a disability that may prevent him or her from demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodation necessary to ensure full participation and facilitate your educational opportunities.