

MATL 6982 - Graduate Research

Fall 2026 Syllabus, Section 03, CRN 41245,

Credit hours: 6

Instructor

Jae Ryu

Email: jjryu@ysu.edu

Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications:

PhD, Mechanical Engineering, Iowa State University

MS, Mechanical Engineering, Iowa State University

BS, Mechanical Engineering, Iowa State University

Instructor Office Location: Moser Hall 2540

Instructor Office Phone: 330) 941-2396

Course Description

6982. Graduate Research. Individual investigation of advanced topics under the guidance of selected program faculty. May be repeated for a maximum of 30 semester hours.

Course Readings

Group	Title	Author	ISBN
Optional	Journal papers and books		

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Heat and fluid systems	
8/31	Heat and fluid systems	
9/7	Heat and fluid systems	
9/14	Heat and fluid systems	
9/21	Heat and fluid systems	
9/28	Advanced manufacturing processes	
10/5	Advanced manufacturing processes	
10/12	Advanced manufacturing processes	
10/19	Advanced manufacturing processes	
10/26	Advanced manufacturing processes	
11/2	Advanced manufacturing processes	
11/9	Analysis for additive manufacturing	
11/16	Analysis for additive manufacturing	
11/23	Analysis for additive manufacturing	
11/30	Analysis for additive manufacturing	
12/7	Analysis for additive manufacturing	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.