

# MATSCEN 4999: Undergraduate Research

## Course Description

Supervised undergraduate research on topics in Materials Science & Engineering (non-honors version)

**Prior Course Number:** 783H

**Transcript Abbreviation:** Ugd Thesis Res

**Grading Plan:** Letter Grade

**Course Deliveries:** Classroom

**Course Levels:** Undergrad

**Student Ranks:** Freshman, Sophomore, Junior, Senior

**Course Offerings:** Autumn, Spring, May, Summer

**Flex Scheduled Course:** Never

**Course Frequency:** Every Year

**Course Length:** 14 Week

**Credits:** 0.5 - 3.0

**Repeatable:** Yes

**Maximum Repeatable Credits:** 6.0

**Total Completions Allowed:** 6

**Allow Multiple Enrollments in Term:** No

**Graded Component:** Lecture

**Credit by Examination:** No

**Admission Condition:** No

**Off Campus:** Never

**Campus Locations:** Columbus

**Prerequisites and Co-requisites:**

**Exclusions:**

**Cross-Listings:**

**Course Rationale:** Non-honors version of 4999 was not included in semester conversion by mistake.

**The course is required for this unit's degrees, majors, and/or minors:** No

**The course is a GEC:** No

**The course is an elective (for this or other units) or is a service course for other units:** Yes

**Subject/CIP Code:** 14.3101

**Subsidy Level:** Baccalaureate Course

## Programs

Abbreviation	Description
MATSCEN	Materials Science and Engineering

## Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Supervised undergraduate research on various topics								

## ABET-EAC Criterion 3 Outcomes

<b>Course Contribution</b>		<b>College Outcome</b>
***	a	An ability to apply knowledge of mathematics, science, and engineering.
***	b	An ability to design and conduct experiments, as well as to analyze and interpret data.
***	c	An ability to design a system, component, or process to meet desired needs.
*	d	An ability to function on multi-disciplinary teams.
***	e	An ability to identify, formulate, and solve engineering problems.
	f	An understanding of professional and ethical responsibility.
*	g	An ability to communicate effectively.
*	h	The broad education necessary to understand the impact of engineering solutions in a global and societal context.
*	i	A recognition of the need for, and an ability to engage in life-long learning.
*	j	A knowledge of contemporary issues.
***	k	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**Prepared by:** Mark Cooper