

Materials Science & Engineering

Materials Science Engineering (MATSCIE)

220 Intro Mat & Man **4.00** **ENFORCED**

12175 A R LEC 100 MWF 1130-1230PM 1060 FMCRB Wynarsky
Structure, properties, and processing relationships in engineering materials. This section is particularly well-suited for Aerospace and NERS students (minor added emphasis on composites and radiation effects on materials).

12176 P RW DIS 101 TH 1130-1230PM 1500 EECS
12177 P RW DIS 102 TH 1030-1130AM 1500 EECS
12178 P RW DIS 103 TH 230-330PM 1109 FXB
25915 P RW DIS 104 TH 1130-1230PM 1109 FXB
33603 A R LEC 200 MWF 1030-1130AM 1060 FMCRB Wynarsky
33604 P RW DIS 201 TH 1030-1130AM 1670 BEYSTER
33605 P RW DIS 202 TH 1130-1230PM 1571 GGBL
34206 A R LEC 800 MWF 1130-1230PM 1060 FMCRB Wynarsky
34207 P R DIS 801 TH 1130-1230PM 1500 EECS
34208 P R DIS 802 TH 1030-1130AM 1500 EECS
34209 P R DIS 803 TH 230-330PM 1109 FXB
34210 P R DIS 804 TH 1130-1230PM 1109 FXB
34211 A R LEC 820 MWF 1030-1130AM 1060 FMCRB Wynarsky
34212 P R DIS 821 TH 1030-1130AM 1670 BEYSTER
34213 P R DIS 822 TH 1130-1230PM 1571 GGBL

242 Physics of Matls **4.00** **ENFORCED**
12179 P R LEC 001 F 1130-1230PM REMOTE

242 Physics of Matls **4.00** **ENFORCED**
P R LEC 001 MW 12-130PM REMOTE Kioupakis

250 Prin Engr Matl **4.00** **ENFORCED**

12180 A R LEC 100 MWF 930-1030AM REMOTE Goldman
17304 P RW DIS 101 TH 1130-1230PM REMOTE Zhang
20522 P RW DIS 102 TH 130-230PM REMOTE Guan

280 MSE Ugrad Res Opp **1.00-4.00** **ADVISORY**
D IND + ARR ARR

293 MSE Special Topics **3.00**
34786 P LEC 001 MWF 11-12PM REMOTE Beck, Yalisove

3 Million Yrs of Matls & Cltre

Making Things: Three Million Years of Materials and Culture

This course explores the connections between the discovery of new materials -- such as ceramics, concrete, precious stones and metals, glass, steel, plastics, and semiconductors -- and social transformations worldwide. To see these connections, the course will fuse basic concepts in materials science and engineering with perspectives and methods from anthropological archaeology.

335 Kin&Transport **4.00** **ENFORCED**

12183 P RW LEC 001 F 830-930AM REMOTE

335 Kin&Transport **4.00** **ENFORCED**

P RW LEC 001 MW 1030-12PM REMOTE Thornton, Sun

MSE335 will be a combination of synchronous and asynchronous components, and attendance is required for many sessions. While any synchronous lectures will be recorded, there will also be required synchronous components such as group work, synchronous quizzes, and synchronous exams during the scheduled class time.

365 Materials Lab II **3.00** **ENFORCED**

12181 S R LEC 001 M 330-430PM REMOTE Chambers

Labs for MSE 365 are held in the Van Vlack Undergraduate Lab, second floor of the H.H. Dow building.

For permission to register, contact Patti Vogel at pvogel@umich.edu.

17738 P RW LAB 002 T 1230-430PM 2150 DOW Powers
12182 P RW LAB 003 W 130-530PM 2150 DOW Huang
28806 P RW LAB 004 TH 12-4PM 2150 DOW lezzi
34142 P R LAB 802 T 1230-430PM 2150 DOW Powers
34143 P R LAB 803 W 130-530PM 2150 DOW Huang
34144 P R LAB 804 TH 12-4PM 2150 DOW lezzi

440 Ceramic Materials **3.00** **ADVISORY, ENFORCED**

18577 P R LEC 001 MW 130-3PM REMOTE Poudeu-Poudeu

465 Struc Chm Char Matls **3.00** **ENFORCED**

30676 P R LEC 001 TTH 830-10AM 1013 DOW Hovden

34311 P R LEC 800 TTH 830-10AM 1013 DOW Hovden

482 Prod Design Man **3.00** **ENFORCED**

33873 P R LEC 001 TTH 2-330PM ARR Shtein, Li

MSE 482 class will be held in 2150 DOW

34785 P R LEC 800 ARR Li, Shtein

485 Design Problems **1.00-4.00** **ENFORCED**

R IND + ARR ARR

490 Research Problems **1.00-3.00** **ENFORCED**

R IND + ARR ARR

500 Mater Phys Chem **3.00**

33874 P LEC 001 MW 3-430PM 1500 EECS Heron

34145 P LEC 801 MW 3-430PM 1500 EECS Heron

512 Phys Polymers **3.00** **ADVISORY**

22006 P LEC 001 MW 430-6PM REMOTE Kim

514 Comp Matrls **3.00** **ENFORCED**

19273 P RW LEC 001 TTH 10-1130AM REMOTE Sevensen

CAT# Class #	Course Title CODE CMP SEC	DAYS	TIME	LOCATION	CR INSTRUCTOR	PREREQ	LAB FEE
23458	P R LEC 881	TTH	10-1130AM	REMOTE	Sevener		
516	Frac Inter Layer Mat				3.00	ADVISORY	
33325	P W LEC 001	MW	1030-12PM	REMOTE	Thouless		
520	Adv Mech Behavior				3.00	ADVISORY	
30655	P LEC 001	TTH	10-1130AM	REMOTE	Misra, Qi		
535	Kin,Ph Trnsfm&Trnsp				3.00	ADVISORY	
17305	P LEC 001	MW	9-1030AM	REMOTE	Shahani		
556	Molecular Sim				3.00		
30675	P LEC 001	TTH	130-3PM	1690 BEYSTER	Kieffer		
34312	P LEC 800	TTH	130-3PM	1690 BEYSTER	Kieffer		
559	Foundations Nano II				3.00	ADVISORY	
30660	P LEC 001	MW	1230-2PM	1045 GGBL	Laine		
34313	P LEC 800	MW	1230-2PM	REMOTE	Laine		
577	Failure Analys				3.00	ADVISORY	
30656	P RW LEC 001	MW	1030-12PM	REMOTE	Allison, Farjami		
Lecture portion of the course will be REMOTE but the LAB portion will be in person held in the Van Vlack lab on the second floor of H.H. DOW							
593	MSE Special Topics				3.00	ADVISORY	
40153	P W LEC 001	TTH	9-1030AM	220 CHRYS	Kamcev		
Mass Transfer in Polymers							
30671	P LEC 043	TTH	430-6PM	REMOTE	Tuteja		
Surface and Interfacial Engr							
Surface and Interfacial Engineering - This course will present and analyze the surfaces of a wide range of biological species, such as lotus leaves, rose petals, water striders, arctic spring tails, sharks, desert beetles, and pitcher plant leaves. We will understand the unique surface functionality associated with each of these biological species by examining the roles of surface composition and surface texture. Subsequently, we will discuss how this fundamental understanding can be used to engineer bio-inspired surfaces of the future for a range of applications such as stain resistant fabrics, micro-robots, anti-fingerprint displays, drag reduction for ships, fog harvesting and ice-shedding.							
40195	P W LEC 801	TTH	9-1030AM	220 CHRYS	Kamcev		
690	Research Problems				1.00-16.00		
	IND +		ARR	ARR			
890	Colloq in Mat Sci				1.00		
20121	P R SEM 001	F	10-1130AM	REMOTE	Heron, Shahani, Hovden, Li, Sun, Qi		
990	Diss-Precand				1.00-8.00	ADVISORY	
	IND +		ARR	ARR			
995	Diss-Cand				8.00	ENFORCED	
	R IND +		ARR	ARR			