INSTRUCTOR

LOCATION

Materials Science & Engineering

Materia	Is Science	Engineering	(MATSCIE)
220	Intro Mat & Ma	n S	` ,

ENFORCED 10868 AR LEC 100 **MWF** 1130-1230PM **AUD CHRYS** 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

10869	P RW	DIS	101	TH	1130-1230PM	3427 EECS	Repetto
10870	P RW	DIS	102	TH	1030-1130AM	1006 DOW	Dawahre
10871	P RW	DIS	103	TH	130-230PM	1010 DOW	Halvey
26311	P RW	DIS	104	TH	1130-1230PM	185 EWRE	Dawahre
30434	P RW	DIS	105	TH	130-230PM	1018 DOW	Repetto
23573	PR	LEC	200	TTH	330-530PM	133 CHRYS	Yalisove
70.10	(1.40)	- $ -$		and the second and a second as	the first term and the section of	the characters that Car	and the second control of

This section of MSE 220 is a team based and project based version of the class where the first introduction to the material is NOT lecture, but rather annotated reading. Class time will consist of active learning activities. There will be three group projects in this class. Students will be required to purchase an electronic textbook via the Canvas site that will be live in December. Students will also be required to purchase a subscription to Learning Catalytics (\$12). There are no other fees for the course. Homework is graded for effort and honesty - not accuracy. Quizzes are graded by averaging a closed book, closed notes, individual effort, with an open book, open internet, group effort. You will be rewarded for hard work and honesty on homework and exams without the angst of 100% summative amount of the properties of the prop website: http://java.engin.umich.edu/220w19

242	Physics of Matls				4.00	ADVISORY, ENFORCED
10872	PŘ LEC 001	MW	12-130PM	1014 DOW	Kioupakis	
242	Physics of Matls				4.00	ADVISORY, ENFORCED
	P R LEC 001	F	1130-1230PM	1670 BEYSTER		
250	Prin Engr Matl				4.00	ENFORCED
10873	SR LEC 100	MWF	930-1030AM	1017 DOW	Goldman	
16249	P RW DIS 101	TH	1130-1230PM	1006 DOW	Lu	
19730	P RW DIS 103	TH	130-230PM	2166 DOW	Lu	
280	MSE Ugrad Res O	pp			1.00-4.00	ADVISORY
	D IND +		ARR	ARR		
335	Kin&Transport				4.00	ENFORCED
10876	PRW LEC 001	MW	1030-12PM	2150 DOW	Shahani	
335	Kin&Transport				4.00	ENFORCED
	PRW LEC 001	F	830-930AM	2150 DOW		
365	Materials Lab II				3.00	ENFORCED
10874	S R LEC 001	M	330-430PM	224 GFL	Chambers	
Labs for N	MSE 365 are held in	the Van Vlack U	Indergraduate Lab, sec	ond floor of the H.H.	Dow building.	

For permis	For permission to register, contact Patti Vogel at pvogel@umich.edu.								
16712				T	1230-430PM	ARR	Valle		
10875	P RW	LAB	003	W	130-530PM	ARR	Mensah		
31475	P RW	LAB	004	TH	12-4PM	ARR	Bregman		
440	Cerai	nic Ma	aterials	3			3.00	ADVISORY	
17607	Р	LEC	001	TTH	10-1130AM	2150 DOW	Poudeu-Pou		
470	Phys	Met					3.00	ADVISORY, ENFORCED	
16251				WF	130-3PM	1008 FXB	Allison		
480	Matis	Engr	Desig	า			3.00	ENFORCED	
17134	AR	LEC	001	TTH	2-330PM	1109 FXB	Taub, Tuteja	ı	
23090	PR	LAB	002	TTH	1-2PM	1121 LBME	Taub, Tuteja	l	
Lab for MSE 480 will be held in either Design lab 1 or 3 in the Duderstat or 1100 Dow North Campus, this will be									

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determine	d by yo	ur inst	ructor					
485	Desic	ın Pro	blems	1.00-4.00	ENFORCED			
	RÌ	IND	+		ARR	ARR		
490	Rese	arch P	roblei	ms			1.00-3.00	ENFORCED
	R	IND			ARR	ARR		
500	Mate	Phys	Chen	1			3.00	
16714	Р	LÉC		MW	130-3PM	1006 DOW	Heron	
512	Phys	Polym	ners				3.00	ADVISORY
21362	Р	LEC	001	MW	430-6PM	3150 DOW	Kim	
514	Comp	Matri	ls				3.00	ADVISORY
18361	P W	LEC	001	TTH	10-1130AM	165 CHRYS	Sevener	
23034	Р	LEC	881	TTH	10-1130AM	ARR	Sevener	
535	Kin,P	h Trns	sfm&T	rnsp			3.00	ADVISORY
16250	P	LEC	001	ΜW	9-1030AM	2150 DOW	Kieffer	
593	MSE	Specia	al Topi	ics			3.00	ADVISORY
33205	ΡW	LEC	001	MW	11-1230PM	1018 DOW	Goldsmith	
A 11 1 D							1.1	

Applied Data Science for Engineers - The classroom instruction in this course will be aimed to prepare engineering students to use data science tools during their master?s and PhD thesis research as well as for post-graduation in industry, government, and academia. Course content will expand the students? horizons of the utility of data science in real-world contexts and help them reflect on their own understanding of the course material to equip them with the tools and mindset to address the big challenges facing society. This course will familiarize students with the principles of modern data science techniques in the context of chemical engineering, materials science, and research. The course will focus on an overview of data science tools used in engineering and science applications such as data curation, supervised and unsupervised machine learning, and data mining. Algorithms and frameworks covered include the perceptron, dimensionality reduction tools, kernel ridge regression, neural networks, subgroup discovery, compressed sensing, random forests, support vector machines, and causal inference, CAT# Course Title CR PREREQ LAB FEE
Class # CODE CMP SEC DAYS TIME LOCATION INSTRUCTOR

among others. Homework exercises include hands-on practice of using data science to solve science and engineering problems. Students will be responsible for a data science project on a topic of interest."

622	Ion Beam Mod	. a data dolorido projecti	on a topio or interest.	3.00 ADVISORY
33066	P LEC 001 TTH	1030-12PM	1045 GGBL	Atzmon
690	Research Problems			1.00-16.00
	IND +	ARR	ARR	
890	Colloq in Mat Sci			1.00
19279	PR SEM 001 F	10-1130AM	1670 BEYSTER	Heron, Qi, Shahani, Hovden
990	Diss-Precand			1.00-8.00 ADVISORY
	IND +	ARR	ARR	
995	Diss-Cand			8.00 ENFORCED
	R IND +	ARR	ARR	