Sample Schedule for MSE (Materials Science) & Engineering Design, Innovation & Entrepreneurship (EDIE)

Materials Science Engineering

Environmental Engineering + EDIE

First Year			
Fall			Units
XX-XXX	Approved PCC/SDM CIT Gen Ed		9
21-120	Differential and Integral Calculus		10
33-141	Physics I for Engineering Students		12
99-101	Computing @ Carnegie Mellon		3
27-100	Engineering Materials of the Future		12
		Total:	46

First Year	
Fall	Units
Same	0
Same	10
Same	12
Same	3
Same	12
	Total· 46

xx-xxx Intro to Engineering (second intro) 12 xx-xxx Physics II for Engineering 12			Total:	43
21-122Integration and Approximation10xx-xxxIntro to Engineering (second intro)12	76-101	Interpretation and Argument		9
21-122 Integration and Approximation 10	xx-xxx	Physics II for Engineering		12
. •	XX-XXX	Intro to Engineering (second intro)		12
Spring	21-122	Integration and Approximation		10
	Spring			

Spring <i>Same</i>		10
49-101	Intro to Engineering Design, Innovation & Entrepreneurship	12
Same		12
Same		10
	Total:	43

Second Yea	r	
Fall		Units
27-201	The Structure of Materials	9
27-210	Materials Engineering Essentials	6
27-215	Thermodynamics of Materials	12
15-110 OR	Principles of Computing OR Fundamentals	10
15-112		
90-105	Modern Chemistry 1	10
21-254	Linear Algebra and Vector Calculus for Engineers	11
39-210	Experiential Learning 1	0

Second Year	
Fall	Units
same	9
Same	6
Same	12
Same	10
Same	10
Same	11
Same	0
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Total: 58 Total: 55



Spring			Spring		
27 202	56	0	Same		0
<u>27-202</u> <u>27-216</u>	Defects in Materials	9	Cama		9
	Transport Materials		Same		
27-217	Phase Relations and Diagrams	12	Same		12
21-260	Differential Equations	9	Same		9
39-220	Experiential Learning II	0	Same		0
XX-XXX	Approved PCC/SDM/II/WE Elective	9	73-102	Principles of Microeconomics	9
			49-206	Tech Business Planning (Mini 3)	4.5
	Total:	48		Total:	52.5
Third Year			Third Year		
Fall		Units	Fall		Units
		9	Same		9
27-301	Microstructure and Properties 1				
27-xxx	MSE Restricted Elective	9	Same		9
33-225 OR	Quantum Physics and the Structure of Matter OR	9	Same		9
03-121 OR	Modern Biology OR Organic Chemistry				
09-217					
39-310	Experiential Learning III	0	Same		0
xx-xxx	Approved PCC/SDM/II/WE Elective	9	70-345 or	Business Presentations or Business Communications or Acting	9
			70-340 or	for Business	
			70-350		
XX-XXX	Free Elective	9	49-205	Tech Venture Marketing (<i>Mini 3</i>)	4.5
			49-406	Tech Venture Formation (Mini 4)	4.5
	Total:	45		Total:	45
Spring			Spring		
27-305	Introduction to Materials Characterization	6	Same		6
27-367	Selection and Performance of Materials	6	Same		6
27-xxx	MSE Restricted Elective	9	Same		9
36-220	Engineering Statistics and Quality Control	9	Same		9
XX-XXX	Approved PCC/SDM/II/WE Elective	9	Same		9
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XX-XXX	Free Elective		9	49-405	Leading Engineering Innovation Teams (Mini 3)		4.5
				49-306	Engineering Design Methods (Mini 4)		4.5
				49-305	Customer Discovery (Mini 4)		4.5
		Total:	48			Total:	52.5
Fourth Ye	ear			Fourth Y	ear		
Fall			Units	Fall			Units
27-401	Capstone Design 1		6		Discipline-specific engineering design course		6
27-xxx	MSE Restricted Elective		9	Same			9
27-xxx	MSE Restricted Elective		9	Same			9
XX-XXX	H&SS Elective		9	Same			9
XX-XXX	Free Elective		9	49-420	EDIE Innovation Capstone		9
XX-XXX	Approved PCC/SDM/II/WE Elective		9	Same			9
		Total:	51			Total:	51
Spring				Spring			
27-402	Capstone Design 2		6	Same	Discipline-specific engineering design course		6
xx-xxx	MSE Approved CIT Technical Elective		9	Same			9
XX-XXX	H&SSElective		9	Same			9
xx-xxx	Free Elective		9	49-421	EDIE Entrepreneurship Capstone		9
XX-XXX	Free Elective		9	Same			9
		Total:	42			Total:	42

