

Materials Science and Engineering Undergraduate Course Schedule

Spring Term (2264)

Required Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
ENGR 0021	26565	Probability and Statistics for Engineers	3	TuTh	2:30-3:45pm	G31 Benedum
	26574	<i>recitation</i>	3	F	9:00-9:50am	G31 Benedum
ENGR 0021	26578	Probability and Statistics for Engineers	3	TuTH	9:30-10:45am	G31 Benedum
	26579	<i>recitation</i>	3	F	12:00-12:50pm	G31 Benedum
ENGR 0135	12380	Statics & Mechanics of Materials 1	3	MWF	3:00-3:50pm	318 Benedum
ENGR 0145	12376	Statics & Mechanics of Materials 2	3	MWF	11:00-11:50am	343 Alumni
MEMS 0048	23139	Thermodynamics of Materials	3	MWF	2:00-2:50pm	309 Benedum
MEMS 1001	32225	MSE Lab 1	3	TuTh	9:00-10:50am	G24 Benedum
MEMS 1011	13957	Structure & Properties Lab	3	TuTh	1:00-3:50pm	G24 Benedum
MEMS 1028	13971	Mechanical Design 1	3	MWF	1:00-1:50pm	150Chvn/157Beh
MEMS 1043	14799	Senior Design Project	3	TuTh	11:00am-12:25pm	318 Benedum
MEMS 1053	31113	Structure of Crystals & Diffraction	3	MWF	1:00-1:50pm	G24 Benedum
MEMS 1063	23780	Phase Transformations	3	MWF	3:00-3:50pm	226 Benedum
MEMS 1070	14170	Mechanical Behavior of Materials	3	TuTh	9:30-10:45am	tbd
MEMS 1079	14801	Senior Materials Research Project	1-3	TuTh	2:00-4:50pm	web
MEMS 1085	13274	Departmental Seminar	0	W	10:00-10:50am	121/105 Lwrnce
MEMS 1086	15880	MSE Seminar	0	F	10:00-10:50am	G30 Benedum

† Department Consent Required

‡ Instructor Consent Required

Electives						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
ENGR 1050†	12381	Product Realization†	3	Tu	<i>see next page for instructions</i>	
ENGR 1090P†	21239	Engineering Cooperative Program†	1			
ENGR 1701	12531	Fundamentals of Nuclear Reactors	3	W	6:00-8:30 pm	157 Benedum
MEMS 1033	14805	Fracture Mechanics for Mfg & Perf	3	W	4:00-6:30pm	226 Benedum
MEMS 1048	27721	Analysis & Characterization at the Nano Scale	3	MW	11:00-12:15pm	G28 Benedum
MEMS 1074	32811	Nanomaterials and Biomolecular Assembly	3	M	4:00-6:25pm	G28 Benedum
MEMS 1097†	14802	Special Projects†	1-3	TBA		
MEMS 1098†	14803	Special Projects II†	1-3	TBA		
MEMS 1106	32820	Ironmaking and Steelmaking Processes	3	M	5:30-8:00pm	1045 Benedum
MEMS 1163	28476	Ceramic Materials	3	Th	4:00-6:30pm	406 IS
MEMS 1165	27722	Materials Design	3	Tu	4:00-6:30pm	158 Benedum
ENGR 1453	25559	Data Science: Stat Learning, Modeling & Prediction	3	TuTh	11:30am-12:45pm	1047 Benedum
BIOENG 1071	12522	Intro to Cell Biology 2	3	MWF	11:00-11:50am	1500 WWPH
	12523	<i>recitation</i>	0	Tu	9:00-9:50am	321 Thackeray
	12543	<i>recitation</i>	0	Tu	12:00-12:50pm	G29 Benedum
	18505	<i>recitation</i>	0	Tu	4:00-4:50pm	105 Lawrence
	18506	<i>recitation</i>	0	Tu	5:00-5:50pm	G27 Benedum
	25017	<i>recitation</i>	0	Tu	10:00-10:50am	320 Benedum
	27967	<i>recitation</i>	0	Tu	11:00-11:50am	3600 WWPH
	27968	<i>recitation</i>	0	Tu	12:00-12:50pm	4625 WWPH
	27969	<i>recitation</i>	0	Tu	5:00-5:50pm	232 Lawrence
	27980	<i>recitation</i>	0	Tu	10:00-10:50am	321 Thackeray
BIOENG 1075	22409	Intro to Cell & Molecular Biology Lab Techniques	3	Tu	4:00-5:55pm	316 OEH
	22410	<i>recitation</i>	0	F	1:00-4:00pm	TBD
IE 1202	24312	Introduction to Medical Product Development	3	Th	3:00-5:30PM	312 Benedum

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Electives (cont.)						
CHEM 0310		Organic Chemistry 1	3	See Class Search/Browse Catalog on my.pitt.edu		
CHEM 0320		Organic Chemistry 2	3	See Class Search/Browse Catalog on my.pitt.edu		
CHEM 1600	10302	Synthesis & Characterization of Polymers	3	MW	3:00-4:15pm	228 Eberly
ECE 1251	25575	Micro and Nano Device Fabrication Laboratory	3	MW	9:00-10:50am	228 Victoria
MSE 2034	31114	Optical Matls & Thin Film for Eng Opt/Therm Trans	3	MW	4:00-6:30pm	A214 Langley

For the Biomaterials option, BIOSCI 0105 and 0106 can be substituted for BIOENG 1070 and 1071. CHEM 0310 Organic Chemistry 1 is also recommended, but not required.

For MSE 2123, you need permission from your advisor to be enrolled in the class - graduate level

Communications Skills Electives						
<u>Subj./Catlg#</u>	<u>Class #</u>	<u>Course</u>	<u>Units</u>	<u>Days</u>	<u>Time</u>	<u>Room</u>
COMMRC 0500		Argument	3	See Class Search/Browse Catalog on my.pitt.edu		
COMMRC 0520		Public Speaking	3	See Class Search/Browse Catalog on my.pitt.edu		
ENGCOMP 0400		Written Professional Communication	3	See Class Search/Browse Catalog on my.pitt.edu		
ENGCOMP 0401	23034	Written Prof. Comm.: Topics in Diversity	3	MWF	11:00-11:50am	206 CI
ENGCOMP 0401	23035	Written Prof. Comm.: Topics in Diversity	3	MWF	1:00-1:50pm	206 CI
ENGCOMP 0412		Engineering Comm. in a Professional Context	3	See Class Search/Browse Catalog on my.pitt.edu		
ENGCOMP 0600	23248	Introduction to Technical Writing	3	Tu	6:00-8:30pm	216 CL
ENGCOMP 0600	21211	Introduction to Technical Writing	3	MWF	4:30-5:45pm	221 CL

ENGR 1050

To add this class, you will need permission from the instructor. Please email Dr. Winter (ewinter@pitt.edu) and let him know your academic level and reason why you are interested in the class.