

MATERIALS SCIENCE & ENGINEERING

Class of '11

First Semester

160:159	Gen Chem Eng		3
160:171	Intro to Experimentation		1
355:101	Expository Writing		3
440:100	Engr Orientation	N	1
640:151	Calculus I Math/Phys		4
750:123	Analyt Physics I		2
____:____	Hum/SocSci Elective		3
total			17

Third Semester

640:251	Multivariable Calculus		4
750:227	Analytical Physics IIA		3
750:229	Analytical Physics Lab		1
960:xxx	Statistics*	M	3
635:203	Intro to MSE	M	3
635:205	Crystal Chem & Struct	M	3
Total			17

Fifth Semester

635:353	Laboratory II	M	2
635:303	Phase Diagrams	M	3
635:305	Microprocessing	M	3
635:307	Kinetics of Mat Proc	M	3
635:309	Characterization of Materials	M	3
635:____	Specialization Elective*	M	3
total			17

Seventh Semester

635:401	Senior MSE Lab		
	OR	M	3
635:411	MSE Eng Design I		
635:403	MSE Seminar	M	1
635:____	Specialization Elective*	M	3
635:____	Specialization Elective*	M	3
____:____	Technical Elective		3
____:____	Hum/SocSci Elective		3
total			16

***See note below about
Electives**

Second Semester

160:160	Gen Chem Eng		3
440:127	Intro Comput Eng		3
440:221	Eng Mech:Statics		3
640:152	Calculus II Math/Phys		4
750:124	Analyt Physics I		2
____:____	Hum/SocSci Elective		3
total			18

Fourth Semester

640:244	Diff Eqs for Engr & Phys		4
635:204	Materials Processing	M	3
635:206	Mat. Thermodynamics	M	4
635:212	Physics of Materials	M	3
635:252	Laboratory I	M	2
total			16

Sixth Semester

220:200	Economic Principles & Prob	M	3
635:312	Glass Engineering	M	3
635:314	Strength of Materials	M	3
635:354	Laboratory III	M	2
635:316	EOM Prop of Mat	M	3
635:____	Specialization Elective*	M	3
total			17

Eighth Semester

635:402	Senior MSE Lab		
	OR	M	3
635:412	MSE Eng Design II		
635:404	MSE Seminar	M	1
635:____	Specialization Elective*	M	3
635:____	Specialization Elective*	M	3
____:____	General Elective		3
____:____	Hum/SocSci Elective		3
total			16

Total Credits 134

ELECTIVES

Of the six (6) Specialization Electives two (2) of them must be taken from the following list:

635:360 Materials Science & Engineering of Ceramics
635:361 Materials Science & Engineering of Polymers
635:362 Physical Metallurgy

The other Specialization Electives must be from the list of offered Departmental Electives and/or any science/technical courses in the university that are approved by your advisor and the Undergraduate Director.

The one Technical Elective must be selected from any science and/or technical course in the university that is approved by your advisor and the Undergraduate Director.

STATISTICS

One of the following courses must be taken to satisfy the elective in statistics:

960:211 Statistics I
960:384 Intermediate Statistical Analysis
960:401 Basic Statistics for Research
960:490 Introduction to Experimental Design