

Comparison of the current (left column) and the new (right column) curriculums

<b>1st Semester</b>		
PHYS105	GENERAL PHYSICS I	4
CHEM111	GENERAL CHEMISTRY I	4
MATH119	CALCULUS WITH ANALYTIC GEOMETRY	5
ME105	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENG101	ENGLISH FOR ACADEMIC PURPOSES I	4
IS100	INTRO. TO INFORMATION TECHNOLOGIES AND APPLICATIONS	0
<b>2nd Semester</b>		
PHYS106	GENERAL PHYSICS II	4
CHEM112	GENERAL CHEMISTRY II	4
MATH120	CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES	5
METE102	INTRO. TO METALLURGICAL AND MATERIALS ENGINEERING	2
ENG102	ENGLISH FOR ACADEMIC PURPOSES II	4
<b>3rd Semester</b>		
MATH219	INTRODUCTION TO DIFFERENTIAL EQUATIONS	4
METE201	MATERIALS SCIENCE I	3
METE203	THERMODYNAMICS OF MATERIALS I	3
METE215	MATERIALS PROCESSING LABORATORY	2
CENG230	INTRODUCTION TO C PROGRAMMING	3
ENG211	ACADEMIC ORAL PRESENTATION SKILLS	3
<b>4th Semester</b>		
ES223	STATICS AND STRENGTH OF MATERIALS	4
METE202	MATERIALS SCIENCE II	3
METE204	THERMODYNAMICS OF MATERIALS II	3
METE206	MATERIALS LABORATORY	2
METE208	CHEMICAL PRINCIPLES OF MATERIAL PRODUCTION	3
	RESTRICTED ELECTIVE (ES204, ES 303, ES 361)	3
<b>5th Semester</b>		
METE300	SUMMER PRACTICE I	0
METE301	PHASE EQUILIBRIA	3
METE303	MECHANICAL BEHAVIOR OF MATERIALS	3
METE305	TRANSPORT PHENOMENA	3
METE307	METALLOGRAPHY	3
	NONTECHNICAL ELECTIVE	3
	RESTRICTED ELECTIVE (CHEM220, CHEM229, CHEM468)	3
<b>6th Semester</b>		
METE302	PRINCIPLES OF SOLIDIFICATION	3
METE304	FUNDAMENTALS OF MECHANICAL SHAPING	3
METE306	CHEMICAL METALLURGY I	3
METE308	PHYSICAL METALLURGY	3
METE310	MATERIAL CHARACTERIZATION	3
	NONTECHNICAL ELECTIVE	3
<b>7th Semester</b>		
METE400	SUMMER PRACTICE II	0
METE401	MATERIALS ENGINEERING DESIGN I	3
METE403	PHASE TRANSFORMATIONS	3
METE451	CERAMIC MATERIALS	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	RESTRICTED ELECTIVE (METE455, METE407)	3
<b>8th Semester</b>		
METE402	MATERIALS ENGINEERING DESIGN II	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	NONTECHNICAL ELECTIVE	3
	FREE ELECTIVE	3

Total # of Courses = 49

Total Credits =

147

<b>1st Semester</b>		
PHYS 105	GENERAL PHYSICS I	4
CHEM 111	GENERAL CHEMISTRY I	4
MATH 119	CALCULUS WITH ANALYTIC GEOMETRY	5
ME 105	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENG 101	ENGLISH FOR ACADEMIC PURPOSES I	4
IS 100	INTRO. TO INFORMATION TECHN. & APPLICATIONS	0
<b>2nd Semester</b>		
PHYS 106	GENERAL PHYSICS II	4
CHEM 112	GENERAL CHEMISTRY II	4
MATH 120	CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES	5
METE 102	INTRO. TO METALLURGICAL AND MATERIALS ENGINEERING	2
ENG 102	ENGLISH FOR ACADEMIC PURPOSES II	4
<b>3rd Semester</b>		
MATH 219	INTRODUCTION TO DIFFERENTIAL EQUATIONS	4
METE 201	MATERIALS SCIENCE I	3
METE 203	THERMODYNAMICS OF MATERIALS I	3
METE 215	MATERIALS PROCESSING LABORATORY	2
CENG 230	INTRODUCTION TO C PROGRAMMING	3
ENG 211	ACADEMIC ORAL PRESENTATION SKILLS	3
<b>4th Semester</b>		
ES 223	STATICS AND STRENGTH OF MATERIALS	4
METE 202	MATERIALS SCIENCE II	3
METE 204	THERMODYNAMICS OF MATERIALS II	3
METE 206	MATERIALS LABORATORY	2
ES 361	COMPUTING METHODS IN ENGINEERING	3
	RESTRICTED ELECTIVE (PHYS207, CHEM282, BIO 255)	3
<b>5th Semester</b>		
METE 300	SUMMER PRACTICE I	0
METE 301	PHASE EQUILIBRIA	3
METE 303	MECHANICAL BEHAVIOR OF MATERIALS	4
METE 305	TRANSPORT PHENOMENA	4
METE 307	METALLIC MATERIALS & METALLOGRAPHY (3-2)	4
METE 349	ELECTRICAL, MAGNETIC & OPTICAL PROPERTIES OF MATERIALS	3
<b>6th Semester</b>		
METE 302	PRINCIPLES OF SOLIDIFICATION	3
METE 350	MULTI-SCALE MODELING & SIMULATION OF MATERIALS(2-2)	3
METE 306	CHEMICAL PRINCIPLES OF PRIMARY MATERIALS PROCESSING	4
METE 308	PHYSICAL FOUNDATIONS OF MATERIALS	4
METE 310	STRUCTURE AND CHARACTERIZATION OF MATERIALS (3-2)	4
<b>7th Semester</b>		
METE 400	SUMMER PRACTICE II	0
METE 401	MATERIALS ENGINEERING DESIGN I	3
METE 453	POLYMER MATERIALS	3
METE 451	CERAMIC MATERIALS	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	NONTECHNICAL ELECTIVE	3
<b>8th Semester</b>		
METE 402	MATERIALS ENGINEERING DESIGN II	3
	TECHNICAL ELECTIVE	3
	TECHNICAL ELECTIVE	3
	NONTECHNICAL ELECTIVE	3
	NONTECHNICAL ELECTIVE	3
	FREE ELECTIVE	3

Total # of Courses = 47

Total Credits =

147