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

	Comparison of the current (ient colum	<u> </u>
1st Semester			DK <mark>1</mark>
PHYS105	GENERAL PHYSICS I	4	1
CHEM111	GENERAL CHEMISTRY I	4	- 0
MATH119	CALCULUS WITH ANALYTIC GEOMETRY	5	ľ
ME105	COMPUTER AIDED ENGINEERING GRAPHICS	3	I
ENG101	ENGLISH FOR ACADEMIC PURPOSES I	4	I
IS100	INTRO. TO INFORMATION TECHNOLOGIES AND APPLICATIONS	0	20
2nd Semester			2
PHYS106	GENERAL PHYSICS II	4	ī
CHEM112	GENERAL CHEMISTRY II	4	Ō
MATH120	CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES	5	I
METE102	INTRO. TO METALLURGICAL AND MATERIALS ENGINEERING	2	Î
ENG102	ENGLISH FOR ACADEMIC PURPOSES II	4	19
3rd Semester			3
MATH219	INTRODUCTION TO DIFFERENTIAL EQUATIONS	4	ľ
METE201	MATERIALS SCIENCE I	3	Ì
METE203	THERMODYNAMICS OF MATERIALS I	3	Ì
METE205	MATERIALS PROCESSING LABORATORY	2	Ì
CENG230	INTRODUCTION TO C PROGRAMMING	3	Ċ
ENG211	ACADEMIC ORAL PRESENTATION SKILLS	3	18
	ACADEMIC OKAL FRESENTATION SKILLS	- 3	
Ath Semester			4
ES223	STATICS AND STRENGTH OF MATERIALS	4	1
METE202	MATERIALS SCIENCE II	3	I
METE204	THERMODYNAMICS OF MATERIALS II	3	I
METE206	MATERIALS LABORATORY	2	I
METE208	CHEMICAL PRINCIPLES OF MATERIAL PRODUCTION	3]
	RESTRICTED ELECTIVE (ES204, ES 303, ES 361)	3	18
5th Semester			5
METE300	SUMMER PRACTICE I	0	1
METE301	PHASE EQUILIBRIA	3	I
METE303	MECHANICAL BEHAVIOR OF MATERIALS	3	I
METE305	TRANSPORT PHENOMENA	3	I
METE307	METALLOGRAPHY	3	I
	NONTECHNICAL ELECTIVE	3	I
	RESTRICTED ELECTIVE (CHEM220, CHEM229, CHEM468)	3	18
6th Semester			e
METE302	PRINCIPLES OF SOLIDIFICATION	3	I
METE304	FUNDAMENTALS OF MECHANICAL SHAPING	3	I
METE306	CHEMICAL METALLURGY I	3	r
METE308	PHYSICAL METALLURGY	3	ľ
METE310	MATERIAL CHARACTERIZATION	3	I
	NONTECHNICAL ELECTIVE	3	18
7th Semester			7
METE400	SUMMER PRACTICE II	0	ľ
METE401	MATERIALS ENGINEERING DESIGN I	3	Î
METE403	PHASE TRANSFORMATIONS	3	ľ
METE451	CERAMIC MATERIALS	3	Î
	TECHNICAL ELECTIVE	3	Ê
		3	F
	TTECHNICAL ELECTIVE		
	TECHNICAL ELECTIVE RESTRICTED ELECTIVE (METE455 METE407)		18
th Samestan	RESTRICTED ELECTIVE (METE455, METE407)	3	18
8th Semester	RESTRICTED ELECTIVE (METE455, METE407)	3	8
8th Semester METE402	RESTRICTED ELECTIVE (METE455, METE407) MATERIALS ENGINEERING DESIGN II	3	_
	RESTRICTED ELECTIVE (METE455, METE407) MATERIALS ENGINEERING DESIGN II TECHNICAL ELECTIVE	3 3 3	8
	RESTRICTED ELECTIVE (METE455, METE407) MATERIALS ENGINEERING DESIGN II TECHNICAL ELECTIVE TECHNICAL ELECTIVE	3 3 3 3	8
	RESTRICTED ELECTIVE (METE455, METE407) MATERIALS ENGINEERING DESIGN II TECHNICAL ELECTIVE TECHNICAL ELECTIVE TECHNICAL ELECTIVE	3 3 3 3 3	8
	RESTRICTED ELECTIVE (METE455, METE407) MATERIALS ENGINEERING DESIGN II TECHNICAL ELECTIVE TECHNICAL ELECTIVE	3 3 3 3	8

<	1st Semester		
			4
	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
20	IS 100	INTRO. TO INFORMATION TECHN. & APPLICATIONS	0
	2nd Semester		
	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
	3rd Semester		-
	MATH 219	INTRODUCTION TO DIFFERENTIAL EQUATIONS	4
	METE 201	MATERIALS SCIENCE I	3
	METE 201 METE 203	THERMODYNAMICS OF MATERIALS I	3
	METE 215	MATERIALS PROCESSING LABORATORY	2
	CENG 230	INTRODUCTION TO C PROGRAMMING	3
18	ENG 211	ACADEMIC ORAL PRESENTATION SKILLS	3
	4th Semester		
	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
18		RESTRICTED ELECTIVE (PHYS207, CHEM282, BIO 255)	3
	5th Semester		
	METE 300	SUMMER PRACTICE I	0
	METE 301	PHASE EQUILIBRIA	3
	METE 303	MECHANICAL BEHAVIOR OF MATERIALS	4
	METE 305	TRANSPORT PHENOMENA	4
	METE 305	METALLIC MATERIALS & METALLOGRAPHY (3-2)	4
	METE 349	ELECTRICAL, MAGNETIC & OPTICAL PROPERTIES OF MATERIALS	3
18	METE 347	ELECTRICAL, MAGNETIC & OFFICAL TROFERTIES OF MATERIALS	3
	CAL Commenter		
	6th Semester		2
	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
18			
	7th Semester		
	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
18		NONTECHNICAL ELECTIVE	3
	8th Semester		
	METE 402	MATERIALS ENGINEERING DESIGN II	3
	NIE1E 704	TECHNICAL ELECTIVE	3
		TECHNICAL ELECTIVE	3
		NONTECHNICAL ELECTIVE	3
		NONTECHNICAL ELECTIVE	3
18		FREE ELECTIVE	3
		Total # of Courses = 47 Total Credits =	147