



Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters														Responsible Unit	
				Total Hrs	Lec	Lab	Practice	Recita- tion	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII		8
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W		16 W
0007079	Freshmen Seminar Course	General Assessment	1	16	16	0	0		1															College of Materials Science and Engineering
0000066	Engineering Graphics V	Exam	3	48	48	0	0		3															College of Mechanical Engineering & Applied Electronics Technology
0000158	Organic Chemistry III	Exam	2	32	22	10	0				2													College of Environmental and Energy Engineering
0000274	Introduction to Materials Science and Engineering	Exam	2	32	32	0	0				2													College of Materials Science and Engineering
0003811	Engineering Materials and Mechanical Manufacturing	General Assessment	2	32	30	2	0						2											College of Mechanical Engineering &Applied Electronics Technology
0005223	Engineering Mechanics II	Exam	4	64	58	6	0						4											College of Mechanical Engineering & Applied Electronics Technology
0000106	Electrical Engineering I	Exam	3.5	56	42	14	0								3.5									College of Electronic Information and Control Engineering
0000064	Physical Chemistry II	Exam	3.5	56	40	16	0						3.5											College of Environmental and Energy Engineering
0006177	Fundamentals of Mechanical Design I	Exam	3	48	48	0	0								3									College of Mechanical Engineering & Applied Electronics Technology
0007487	Principles of Materials Science (Chinese/English)	Exam	3.5	56	46	6	0	4							3.5									College of Materials Science and Engineering
0001900	Electrical EngineeringIV	Exam	3.5	56	42	14	0										3.5							College of Electronic Information and Control Engineering
0007165	Introduction to Materials Characterization	Exam	4	64	61	0	0	3										4						College of Materials Science and Engineering
0007671	An Overview of Resources Recycling Science and Engineering	Exam	2	32	32	0	0									2								College of Materials Science and Engineering
0007670	Industrial Ecology	Exam	4	64	64	0	0											4						Institute of Recycling Economy
0005953	The foundation of Eco-Materials	Exam	2	32	28	2	0	2												2				College of Materials Science and Engineering
Discipline Requirements		Sub-total	43	688	609	70	0	9	4	0	4	0	9.5	0	10	0	5.5	0	8	0	2	0	0	
0004747	Machine Shop Training B	General Assessment	2	60	0	0	60		2															College of Mechanical Engineering &Applied Electronics Technology
0002567	Practice of Engineering Graphics	General Assessment	2	60	0	0	60				2													College of Mechanical Engineering & Applied Electronics Technology
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2	22	0				1													College of Applied Sciences
0007069	Social Practices	General Assessment	2	48	0	0	48									2								School of Marxism
0003087	Practices of National Defense	General Assessment	1	30	0	0	30					1												Students' Affairs Office
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36	0	36	0						1.5											College of Applied Sciences
0001302	Design Course for Fundamentals of Mechanical Design II	General Assessment	2	60	0	0	60									2								College of Mechanical Engineering & Applied Electronics Technology
0007166	Optical Analysis	General Assessment	2	48	0	48	0										2							College of Materials Science and Engineering

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									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W		16 W
0007167	Material Engineering Measure and Test Technology	General Assessment	2	48	0	48	0										2							College of Materials Science and Engineering
0001212	Fundamental Training on Electrical and Electronics Engineering II	General Assessment	1	30	15	0	15										1							College of Electronic Information and Control Engineering
0007168	Experiment of Materials Modern Analytical Method	General Assessment	1	24	0	24	0												1					College of Materials Science and Engineering
0007169	Cognitive Practice	General Assessment	1	30	0	0	30						1	0										College of Materials Science and Engineering
0007170	Professional Practice	General Assessment	4	120	0	0	120													4				College of Materials Science and Engineering
0005962	Material Comprehensive Experiment	General Assessment	2	60	0	60	0														2			College of Materials Science and Engineering
0007184	Ecodesign Experiments of Products and Processing	General Assessment	1	24	0	24	0												1					College of Materials Science and Engineering
0007185	Experiment of Resource Recycling	General Assessment	3	72	0	72	0														3			College of Materials Science and Engineering
0005236	Senior Project	General Assessment	16	480	0	0	480																16	College of Materials Science and Engineering
Practical Requirements		Sub-total	44.5	1254	17	334	903	0	2	0	3	1	2.5	0	0	4	5	0	2	4	5	0	16	
Discipline Electives			3.5	56													3.5							
Major Requirements			12	192															8		4			
Major Electives			2	32																	2			
GEESEM:EM			4	64															2		2			
General Education Electives			12	192											4		4		2		2			
Theoretical Electives		Sub-total	33.5	536																				
Practical Electives		Sub-total	1	24																	1			
Total for Theoretical Instruction			141.5	2362																				
Total for Practical Instruction			45.5	1278																				
Innovation Requirements			4	96															2		2			
Freshmen Seminar Course			1	16																				
Total			192	3752					25.5	0	24.5	3	28	0	25	4	18	0	24	4	20	0	16	

Notation: GEESEM:EM is the abbreviation for General Education Electives for Science and Engineering Majors: Economics and Management.

# 2012 Undergraduate Curriculum for Resource Recycling Science and Engineering ( II )

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita- tion	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8		
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W		
0005949	Principles of Materials Science (Metal)	Exam	3.5	56	48	6	0	2									3.5							College of Materials Science and Engineering	
0005950	Principles of Materials Science (Inorganic)	Exam	3.5	56	56	0	0										3.5							College of Materials Science and Engineering	
Discipline Electives		Sub-total	7	112	104	6	0	2																	
0005985	Experiments in Materials Mrocessing	General Assessment	1	24	0	24	0													1				College of Materials Science and Engineering	
0005986	Metal Material Comprehensive Experiment	General Assessment	1	24	0	24	0													1				College of Materials Science and Engineering	
0007015	Experiments on Utilization of Building Materials from Solid Wastes	General Assessment	1	24	0	24	0													1				College of Materials Science and Engineering	
Practical Electives		Sub-total	3	72	0	72	0	0																	
0007009	Resource Recycling Engineering Design	General Assessment	2	32	32	0	0													2				College of Materials Science and Engineering	
0007010	Metallurgical Separation Science and Technology	General Assessment	2	32	30	0	0	2										2						College of Materials Science and Engineering	
0007011	Theory and Technology of Cleaner Production	General Assessment	2	32	30	0	0	2										2						Institue of Recycling Economy	
0007012	Principles and Technologies of Waste Recycling	General Assessment	2	32	28	4	0											2						Institue of Recycling Economy	
0007013	Environmental Protection and Sustainable Development (Self-learning)	General Assessment	2	32	32	0	0													2				Institue of Recycling Economy	
0007014	Resources Economics	General Assessment	2	32	30	0	2											2						Institue of Recycling Economy	
Major Requirements		Sub-total	12	192	182	4	2	4																College of Materials Science and Engineering	
0007016	Environmental Management and Law	General Assessment	2	32	28	0	4											2						College of Enviromental and Energy Engineering	
0007017	Resource, Environment and Recycling Economy	General Assessment	2	32	32	0	0													2				Institue of Recycling Economy	
Major Electives		Sub-total	4	64	60	0	4	0																	

Vice-Director:

Vice-President:

Date:

Date: