MSE 110: Introduction to Materials Science

Course description:	Introduction to the science and technology of metals, polymers, ceramics and composites
Number of credits:	2. This course is required.
Course Coordinator:	S. Bose
Prerequisites by course:	None
Prerequisites by topic:	None
Postrequisites:	None
Textbooks/other required materials:	None
Course objectives:	1. To introduce students to a wide range of modern materials engineering topics through active learning projects.
Topics covered:	1. Crystalline and amorphous structure of matter 2. Defects in materials 3. Metals 4. Ceramics 5. Electronic materials 6. Polymers and composites 7. Engineering roles in solving society problems
Expected learning outcomes:	1. Demonstrating, through written communication skills, information literacy and critical thinking skills within the materials science and engineering field
Class schedule:	Two 50-minute lecture sessions per week, for one semester.
Laboratory schedule:	None, in class projects.
Contribution to meeting the professional component:	Engineering Topics

Relationship of course to student outcomes:
3 strongly supported; 2 supported; 1 minimally supported

Student Outcomes Pre-Fall 2018 (ABET EC2000)

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
2							2		3					

Student Outcomes Fall 2018 forward (ABET EC2019)

1	2	3	4	5	6	7	8	9	10	11
			2			2	3			

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