

TO: The Engineering Faculty
FROM: The Faculty of the School of Materials Engineering
DATE: October 14, 2013
RE: Prerequisite Change for MSE 37000

The faculty of the School of Materials Engineering has approved the following change to the prerequisites for MSE 37000. This action is now submitted to the Engineering Faculty with a recommendation for approval.

From: **MSE 37000 Electrical, Optical, Magnetic Properties of Materials**
Sem. 1. Class 3, Cr. 3.
Prerequisites: MSE 23000, and PHYS 24100.

Catalog Description: An introductory course to provide basic background on the behavior of materials; electronic and ionic conduction, electronic processes in semiconductors, dielectric, optical, and magnetic properties, and superconductivity; emphasis is on the relation between the properties and the structural aspects of materials.

To: **MSE 37000 Electrical, Optical, Magnetic Properties of Materials**
Sem. 1. Class 3, Cr. 3.
Prerequisites: MSE 23000, MSE 27000, and PHYS 24100.

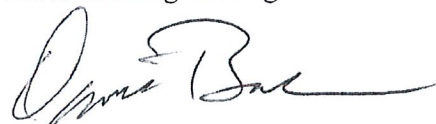
Catalog Description: An introductory course to provide basic background on the behavior of materials; electronic and ionic conduction, electronic processes in semiconductors, dielectric, optical, and magnetic properties, and superconductivity; emphasis is on the relation between the properties and the structural aspects of materials.

Reason: MSE 27000 (Atomistic Materials Science) was a new course (EFD 46-07) introduced as part of the 2008 MSE curriculum revision (EFD 50-07). The content of MSE 27000 is now assumed in MSE 37000. In fact, MSE 27000 has been listed as a prerequisite on internal MSE documents since 2008. The purpose of this document is to formalize this prerequisite.

APPROVED FOR THE FACULTY
OF THE SCHOOLS OF ENGINEERING
BY THE ENGINEERING
CURRICULUM COMMITTEE

ECC Minutes # 4 11-8-13
Date 11/15/13
Chairman ECC JM 2/13

David F. Bahr, Professor and Head
School of Materials Engineering



MSE 31000 EFD 8-14

Office of the Registrar
FORM 40 REV. 5/11

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF AN UNDERGRADUATE COURSE
(10000-40000 LEVEL)

201510

Print Form

DEPARTMENT School of Materials Engineering

EFFECTIVE SESSION Fall 2014

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- 1. New course with supporting documents
- 2. Add existing course offered at another campus
- 3. Expiration of a course
- 4. Change in course number
- 5. Change in course title
- 6. Change in course credit/type
- 7. Change in course attributes (department head signature only)
- 8. Change in instructional hours
- 9. Change in course description
- 10. Change in course requisites
- 11. Change in semesters offered (department head signature only)
- 12. Transfer from one department to another

PROPOSED:

EXISTING:

TERMS OFFERED

Check All That Apply:

Subject Abbreviation _____ Subject Abbreviation MSE _____

Course Number _____ Course Number 37000 _____

Long Title Electrical, Optical, Magnetic Properties of Materials _____

Short Title _____

Fall Spring Summer

CAMPUS(ES) INVOLVED

Calumet N. Central
 Cont Ed Tech Statewide
 Ft. Wayne W. Lafayette
 Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

CREDIT TYPE

COURSE ATTRIBUTES: Check All That Apply

1. Fixed Credit: Cr. Hrs. _____

2. Variable Credit Range:
 Minimum Cr. Hrs. _____
 (Check One) To Or
 Maximum Cr. Hrs. _____

3. Equivalent Credit: Yes No

1. Pass/Not Pass Only

2. Satisfactory/Unsatisfactory Only

3. Repeatable

Maximum Repeatable Credit: _____

4. Credit by Examination

5. Fees: Coop Lab Rate Request

Include comment to explain fee _____

6. Registration Approval Type
 Department Instructor

7. Variable Title

8. Honors

9. Full Time Privilege

10. Off Campus Experience

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	_____	_____	_____	_____
Recitation	_____	_____	_____	_____
Presentation	_____	_____	_____	_____
Laboratory	_____	_____	_____	_____
Lab Prep	_____	_____	_____	_____
Studio	_____	_____	_____	_____
Distance	_____	_____	_____	_____
Clinic	_____	_____	_____	_____
Experiential	_____	_____	_____	_____
Research	_____	_____	_____	_____
Ind. Study	_____	_____	_____	_____
Pract/Observ	_____	_____	_____	_____

Cross-Listed Courses

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):

add
 Prerequisites: ~~MSE 23000~~, MSE 27000, and PHYS 24100.
LAM

*COURSE LEARNING OUTCOMES:

Calumet Department Head _____	Date _____	Calumet School Dean _____	Date _____
Fort Wayne Department Head _____	Date _____	Fort Wayne School Dean _____	Date _____
Indianapolis Department Head _____	Date _____	Indianapolis School Dean _____	Date _____
North Central Faculty Senate Chair _____	Date _____	Vice Chancellor for Academic Affairs _____	Date _____
West Lafayette Department Head _____	Date _____	West Lafayette College/School Dean _____	Date _____
		Sandra Schaffner _____	Date 12/2/13
		West Lafayette Registrar _____	Date _____

OFFICE OF THE REGISTRAR

MSE 31000

LAM 11/22/13