

Date Submitted: 05/20/21 2:40 pm

Viewing: **MATEMS-ENMD : Materials**

## Engineering: Energy Materials and Devices Concentration

Last approved: 08/24/20 5:39 pm

Last edit: 06/03/21 12:51 pm

Changes proposed by: rickwise

Catalog Pages Using  
this Program

[Materials Science and Engineering.\(MSEN\)](#)

Submitter: User ID: **rickwise Kuleza** Phone:  
**2875 7456**

Program Status Active

Academic Level Graduate

Type of proposal Concentration

Select a reason for this modification

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Effective Catalog Year Fall 2022

College/School Code  
Graduate School and International Education (GRAD)

Department Code  
Materials Science and Engineering (MSEN)

Program Code MATEMS-ENMD

Degree Master of Science in Materials Engineering

### In Workflow

1. GRAD Dean Initial
2. GRAD Dean Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. Institutional Research
6. MSEN Chair
7. ENGR Dean
8. ARSC Dean
9. GRAD Dean
10. Global Campus
11. Provost Review
12. University Course and Program Committee
13. Graduate Council
14. Faculty Senate
15. Provost Final
16. Provost's Office-- Notification of Approval
17. Registrar Final
18. Catalog Editor Final

### Approval Path

1. 05/20/21 2:43 pm  
Jim Gigantino (jgiganti): Approved for GRAD Dean Initial
2. 05/20/21 2:44 pm  
Jim Gigantino (jgiganti): Approved

CIP Code

- for GRAD Dean  
Initial
3. 05/21/21 4:24 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
  4. 05/21/21 4:29 pm  
Lisa Kulczak  
(lkulcza): Rollback to  
Director of Program  
Assessment and  
Review for Registrar  
Initial
  5. 05/21/21 4:35 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
  6. 05/27/21 4:13 pm  
Lisa Kulczak  
(lkulcza): Rollback to  
Director of Program  
Assessment and  
Review for Registrar  
Initial
  7. 05/27/21 4:15 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
  8. 06/03/21 12:53 pm  
Lisa Kulczak

- (lkulcza): Approved for Registrar Initial
9. 06/03/21 1:09 pm  
Gary Gunderman (ggunderm): Approved for Institutional Research
10. 06/22/21 1:18 pm  
Rick Wise (rickwise): Approved for MSEN Chair
11. 06/23/21 4:30 pm  
Norman Dennis (ndennis): Approved for ENGR Dean
12. 06/23/21 5:43 pm  
Jeannie Hulen (jhulen): Approved for ARSC Dean
13. 06/23/21 5:45 pm  
Jim Gigantino (jgiganti): Approved for GRAD Dean
14. 06/24/21 8:19 am  
Suzanne Kenner (skenner): Approved for Global Campus
15. 06/24/21 8:36 am  
Terry Martin (tmartin): Approved for Provost Review
16. 08/09/21 8:56 am  
Alice Griffin (agriffin): Approved for University Course and Program Committee
17. 08/19/21 5:19 pm  
Jim Gigantino

(jgiganti): Approved  
for Graduate  
Council

### History

1. May 11, 2020 by  
Lisa Kulczak (lkulcza)
2. May 11, 2020 by  
Lisa Kulczak (lkulcza)
3. May 12, 2020 by  
Charlie Alison  
(calison)
4. Aug 24, 2020 by Lisa  
Kulczak (lkulcza)

14.1801 - Materials Engineering.

#### Program Title

Materials Engineering: Energy Materials and Devices Concentration

#### Program Delivery

##### Method

On Campus

Is this program interdisciplinary?

Yes

#### College(s)/School(s)

College/School Name
College of Engineering (ENGR)
<del>Fulbright College of Arts and Sciences (ARSC)</del>
<b>Fulbright College of Arts and Sciences (ARSC)</b>

Does this proposal impact any courses from another College/School?

No

What are the total hours needed to complete the program?  
na

## Program Requirements and Description

## Requirements

## Concentration in Energy Materials and Devices

Choose nine hours from the following:

9

- [CHEM 5283](#) Energy Conversion and Storage
- [ELEG 5223](#) Design and Fabrication of Solar Cells
- [MEEG 5343](#) Computational Material Science
- [MEEG 5353](#) **Lithium-ion Batteries and Beyond: Materials, Characterization, and Performance**
- [MSEN 5713](#) Advanced Nanomaterials Chemistry
- [MSEN 5733L](#) Fabrication at the Nanoscale
- [MSEN 6323](#) Materials Engineering Design

Are Similar Programs available in the area?

No

Estimated Student Demand for Program see MATEMS info

Scheduled Program see MATEMS info

Review Date

Program Goals and Objectives

### Program Goals and Objectives

see MATEMS info

Learning Outcomes

### Learning Outcomes

see MATEMS info

Description and justification of the request

Description of specific change	Justification for this change
Added one course (MEEG 5353) to MATEMS Energy Materials and Devices concentration.	Update concentration course list. Approved by MSEN faculty at Aug 31, 2020 faculty meeting.

Upload attachments

Reviewer Comments

**Lisa Kulczak (lkulcza) (05/21/21 4:29 pm):** Rollback: Per request from Alice.

**Alice Griffin (agriffin) (05/21/21 4:33 pm):** Changed effective date from fall 2021 to fall 2022. It is too late to complete approval for the fall 2021 catalog of studies.

**Alice Griffin (agriffin) (05/21/21 4:34 pm):** Due to the request adding MEEG, this minor program change will require campus approval.

**Lisa Kulczak (lkulcza) (05/27/21 4:13 pm):** Rollback: Testing workflow for interdisciplinary question.

**Alice Griffin (agriffin) (05/27/21 4:14 pm):** Testing workflow regarding interdisciplinary question.

Key: 764