

Date Submitted: 05/20/21 2:43 pm

Viewing: **MATEMS-NSMD : Materials**

Engineering: Nanoscale Materials and Devices Concentration

Last approved: 08/24/20 5:43 pm

Last edit: 06/03/21 12:50 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-NSMD

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 2:45 pm
Jim Gigantino (jgiganti): Approved for GRAD Dean Initial
2. 05/20/21 2:46 pm
Jim Gigantino (jgiganti): Approved

CIP Code

- for GRAD Dean
Initial
3. 05/21/21 4:36 pm
Alice Griffin
(agriffin): Approved
for Director of
Program
Assessment and
Review
 4. 06/03/21 12:50 pm
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
 5. 06/03/21 1:09 pm
Gary Gunderman
(ggunderm):
Approved for
Institutional
Research
 6. 06/22/21 1:24 pm
Rick Wise (rickwise):
Approved for MSEN
Chair
 7. 06/23/21 4:29 pm
Norman Dennis
(ndennis): Approved
for ENGR Dean
 8. 06/23/21 5:43 pm
Jeannie Hulen
(jhulen): Approved
for ARSC Dean
 9. 06/23/21 5:46 pm
Jim Gigantino
(jgiganti): Approved
for GRAD Dean
 10. 06/24/21 8:19 am
Suzanne Kenner
(skenner): Approved
for Global Campus

- 11. 06/24/21 8:37 am
Terry Martin
(tmartin): Approved
for Provost Review
- 12. 08/09/21 8:56 am
Alice Griffin
(agriffin): Approved
for University
Course and Program
Committee
- 13. 08/19/21 5:19 pm
Jim Gigantino
(jgiganti): Approved
for Graduate
Council

History

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

14.1801 - Materials Engineering.

Program Title

Materials Engineering: Nanoscale 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)
Fulbright College of Arts and Sciences (ARSC)

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 Nanoscale Materials and Devices

Choose nine hours of the following:

9

[CHEM 5443](#) Physical Chemistry of Materials

[ELEG 5303](#) Introduction to Nanomaterials and Devices (Introduction to Nanomaterials and Devices)

[MEEG 5263](#) Introduction to Micro Electro Mechanical Systems

[MEEG 5333](#) Introduction to Tribology

[MEEG 5343](#) Computational Material Science

[MSEN 5713](#) Advanced Nanomaterials Chemistry

[MSEN 5733L](#) Fabrication at the Nanoscale

[MSEN 6323](#) Materials Engineering Design

[PHYS 5713](#) Condensed Matter Physics I

[PHYS 5723](#) Physics at the Nanoscale

[PHYS 5783](#) Physics of 2D Materials

[PHYS 6713](#) Condensed Matter Physics II

Are Similar Programs available in the area?

No

Estimated Student Demand for Program

see MATEMS info

Scheduled Program Review Date

see MATEMS info

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 5263) to MATEMS Nanoscale Materials and Devices concentration.	Update concentration course list. Approved by MSEN faculty at Aug 31, 2020 faculty meeting.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (05/21/21 4:23 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 4:36 pm): Due to the addition of the MEEG course, this minor program change will require campus approval.

Key: 762