



# MSE & NE GRADUATE VIRTUAL WELCOME

June 29, 2023 | University of Florida

# Agenda

Time (EDT)	Topic	Speaker
11:00 a.m.	Welcome and Introductions	Andreas Enqvist, PhD, NE Simon Phillpot, PhD, MSE Academic Services
11:10 a.m.	Payroll Policies and Updates	Sonya Robinson
11:20 a.m.	Academic Policies & Resources	Tahara Franklin
11:30 a.m.	MSE Course Summary	Simon Phillpot, PhD
11:35 a.m.	NE Course Summary	Andreas Enqvist, PhD
11:40 a.m.	IDEA Coalition	Andreas Enqvist, PhD
11:45 a.m.	Announcements & Reminders	Ade Kumuyi
11:55 a.m.	Closing Remarks	Andreas Enqvist, PhD, NE Simon Phillpot, PhD, MSE
12:00 p.m.	Q&A Session	

# Welcome and Introductions

# Nuclear Engineering Program Director



**Andreas Enqvist, Ph.D.**

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# MSE Graduate Coordinator



**Simon Phillpot, Ph.D.**

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# Department Administration



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Department Chair

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**Michael Tonks, Ph.D.**

Associate Chair

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**Andreas Enqvist, Ph.D.**

NE Program Director

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# Graduate Coordinators



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# Staff

## Academics



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**Ade Kumuyi**  
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## Administration



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# Payroll Policies and Updates

Sonya Robinson

# HWCOE Human Resources



**Donna Stilwell**

Assistant Director, Human Resources

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**Sonya Robinson**

HR Generalist II

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**Pynie Gonzales**

Business Admin. Specialist III

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(352) 294-7967

# Graduate Assistantship

- Hire & Onboarding:
  - You should receive multiple emails – 1) list of required payroll documents to begin your onboarding process and 2) email from First Advantage to initiate the required background screening and 3) your Graduate Assistant Letter of appointment sent via DocuSign.
  - You will be required to submit your requested hire documents on or before July 21, 2023.
- Appointment letter:
  - The academic semester dates for your Graduate Assistantship are August 16 – December 31 for the fall semester.
  - You will receive an appointment letter for each academic semester (fall, spring and summer).
- Payroll: you should receive your first paycheck on August 25.

# Foreign Nationals

- Immigration services
- Changes to VISA status
- I-20 extensions
  
- **Contact us**
- Email: [MSE-HR@eng.ufl.edu](mailto:MSE-HR@eng.ufl.edu)  
HWCOE Human Resources is located in  
Weil Hall, room 340
- (352)846-3769

# Academic Policies and Resources

Tahara Franklin



# Advising Contact Information

- Email
  - [advising@mse.ufl.edu](mailto:advising@mse.ufl.edu)
- Phone
  - (352) 846-3312
- Schedule an Appointment
  - **Tahara Franklin:** [Materials Science & Nuclear Engineering - Academic Advising with Tahara Franklin \(office365.com\)](#)
  - **Ade Kumuyi:** [Materials Science & Nuclear Engineering - Academic Advising with Ade Kumuyi \(office365.com\)](#)

# Graduate Handbook and Catalog

- MSE/NE Graduate Handbooks contain all Academic and Departmental Guidelines
  - MSE and NE handbooks are available here:
    - [Student Handbooks – Department of Materials Science and Engineering \(ufl.edu\)](#)
  - Graduate Catalog
    - [Graduate Catalog < University of Florida \(ufl.edu\)](#)
- We require all students to be informed of, and adhere to, all policies stated in the Graduate Handbook and Graduate Catalog.

# Registration

- For Fall registration:
  - Register for classes no later than **August 22, 2023 at 11:59PM (EDT)**, to avoid being assessed a late registration fee of \$100.00.
- Add/Drop Deadline
  - **August 29<sup>th</sup> at 11:59PM (EDT)**
- All future deadlines can be found via the graduate catalog:
  - [Graduate School Academic Calendars < University of Florida \(ufl.edu\)](#)
- Schedule of Courses
  - [ONE.UF - Schedule of Courses](#)
- EDGE Course Listings
  - [Courses - EDGE: Electronic Delivery of Gator Engineering \(ufl.edu\)](#)

# Registration

- **Holds**

- Check **one.uf.edu** for registration holds. Holds which can prevent registration include immunization, financial, insurance, emergency contact and registration preparation.

- **Registration Form**

- Course registrations are processed by the Academics Services Office. You must complete a graduate registration form, which can be found on our [MSE Forms Webpage](#). Please make sure all holds are resolved prior to you submitting the form.

## Graduate Registration Form

Student's Name:		UFID #:	
UF Email:		Citizenship:	International <input type="checkbox"/> US <input type="checkbox"/>
Semester:	Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/>	Year:	
Program Location:	Campus <input type="checkbox"/> EDGE <input type="checkbox"/> National Lab <input type="checkbox"/>	Major:	MSE <input type="checkbox"/> NE <input type="checkbox"/>
Academic Program:	MS Thesis <input type="checkbox"/> MS Non-Thesis <input type="checkbox"/> MS 4+1 <input type="checkbox"/> PhD Pre-Candidacy <input type="checkbox"/> PhD Candidate <input type="checkbox"/>	# of Credits Earned:	
Graduating this term?	Yes <input type="checkbox"/> No <input type="checkbox"/>		

**PLEASE REVIEW ALL INSTRUCTIONS CAREFULLY TO ENSURE PROPER COMPLETION OF THIS FORM.**

- View [ONE.UF](#) and clear all holds before submitting this form.
- PhD Students, complete all required IDP assignments for the current term.
- Review the [Schedule of Courses](#) and the [EDGE Course Listings](#) to see what courses are offered.
- All fields are required in order to be processed by the Academic Services Office.
- **MS Non-Thesis students:** send the form to the Graduate Coordinator in your major for approval:
  - [mse-gradcoordinator@mse.ufl.edu](mailto:mse-gradcoordinator@mse.ufl.edu) or [ne-gradcoordinator@mse.ufl.edu](mailto:ne-gradcoordinator@mse.ufl.edu)
- **PhD and MS Thesis students:** send the form to your Faculty Advisor for approval.
- If any information appears to be incorrect, ASO will contact the student and/or faculty advisor for verification. A new form may need to be submitted in such cases.

**1) CORE COURSE COMPLETION:** MS Students and PhD students that aren't admitted to candidacy must complete this section.

**MSE Students:** Check all courses that you've passed. For PhD students, a B or better/satisfactory grade is considered passing. For MS students, a C or better is considered passing.

EMA 6001  EMA 6114  EMA 6136  EMA 6313  EMA 6316  EMA 6920

**NE Students:** List all NE core courses that you've passed. For PhD Students, a B or better is considered passing and a minimum core course GPA of 3.3 is required. For MS students, a C or better is considered passing.

Graduate Registration Form – Page 2

UFID

Name

**2) REGISTRATION:** List the courses that you're requesting to register for. Release all holds, complete all IDP assignments (PhD students only), and review the course offerings prior to completing this section: [Schedule of Courses](#) and [EDGE Course Listings](#).

Course 1:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>
Course 2:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>
Course 3:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>
Course 4:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>
Course 5:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>
Course 6:	<input style="width: 80px; height: 20px;" type="text"/>	Credits:	<input style="width: 80px; height: 20px;" type="text"/>

List of courses currently enrolled in, and other comments:

**FACULTY APPROVAL:**

**INSTRUCTIONS FOR FACULTY:**

- Please indicate if registration is approved or rejected.
- Please sign and forward the completed form to [advisingforms@mse.ufl.edu](mailto:advisingforms@mse.ufl.edu). Electronic signatures are accepted.

Is registration approved? Yes  No

Faculty Name:

Faculty Signature: \_\_\_\_\_



# Faculty and Research

- [Get to Know Our Faculty – Department of Materials Science and Engineering \(ufl.edu\)](#)
  - [Faculty – Department of Materials Science and Engineering \(ufl.edu\)](#)
  - [Faculty Research Areas – Department of Materials Science and Engineering \(ufl.edu\)](#)
- Volunteer Research
  - EGN 6913 (0 Credit Hour Registration)
- Research for Credit
  - EMA/ENU 6910 : Masters, Non-Thesis
  - EMA/ENU 6971 : Masters, Thesis
  - EMA/ENU 7979 : Doctoral, Pre-Candidacy
  - EMA/ENU 7980 : Doctoral, Admitted to Candidacy

# MSE Course Summary

Simon Phillpot, PhD

# Typical First Year (MS or PhD)

## Fall semester

- EMA 6316 Materials Thermodynamics (3 credits)
- EMA 6313 Materials Structure and Mechanical Properties (3), or  
EMA 6001 Properties of Materials (3)
- 3 additional credits
  - MS: additional MSE class (3)
  - PhD: additional MSE class (3) or 2 credits of Advanced Research (EMA 7979) + 1 credit of seminar (EMA 6936)

## Spring Semester

- EMA 6114 Functional Properties of Materials (3)
- EMA 6136 Diffusion, Kinetics and Transport (3)
- 3 additional credits
  - MS: additional MSE class (3)
  - PhD: additional MSE class (3) or 2 credits of Advanced Research (EMA 7979) + 1 credit of seminar (EMA 6936)

# Placement Exam (MSE Only)

- The Department of Materials Science and Engineering offers an introductory course: EMA 6001 Properties of Materials – A Survey. Incoming students must master the placement exam on fundamentals of materials science or take our introductory materials science course, EMA 6001, before starting the core courses on materials properties.
- The placement exam will be offered online via Canvas. The exam will be available to students from July 1<sup>st</sup> – August 14<sup>th</sup> at 11:59 p.m. (midnight) EDT.
  - Students who do not take the exam or who score less than a 75% will be required to take EMA 6001.
  - Students with higher than a 75% will take EMA6313;
- EMA 6001 is designed to bring new students to the graduate level knowledge in Materials Science and Engineering that is needed to succeed in the graduate program and especially in the core courses. The expected time to graduation is identical for students on both tracks.



# EMA 5095

## Critical Analysis of Research in Materials Science & Engineering

- Course is designed to examine critical methods of analysis for reviewing and writing technical papers and technical reports and for presenting effective oral presentations.
- Selected technical papers and reports will be dissected to determine why they were effective and why some were incorrect or incomplete.
- The essential elements necessary for organizing a research topic or an industrial study plan will be presented.
- At the end of this course the student should be able to review technical journal papers and technical reports in a critical manner to be able to distinguish properly presented data from poorly obtained data.
- The student should also be able to formulate critical questions regarding technical projects or research plans to be able to write effective proposals for successful completion of projects.

# NE Course Summary

Andreas Enqvist, PhD

# NE Core Courses

## Ph.D. (4 Courses)

- NE core courses are a requirement for the written portion of the qualifying exam.
- Students select 4 courses from the list of approved graduate courses.
- Must be declared prior to the completion of third course and before registering for the fourth.
- Courses must be completed by the end of their second year in the program.
- Students must earn a cumulative GPA of 3.3 or higher and no course grade less than B (1 attempt per course).

## M.S. (2 Courses)

- ENU 6051 - Radiation Interactions Basics and Applications 1
- ENU 5615C - Nuclear Radiation Detection and Instrumentation

# Professional Development (Ph.D. Only)

- Required 6 Credits of Professional Development
  - 1 Credit ENU 6941: Professional Development for Nuclear Engineering
  - 1 Credit EGS 6056: Learning and Teaching in Engineering
  - 4 Credits ENU 6940: Supervised Teaching
- For students who can't TA due to fellowship requirements or has no interest in teaching.
  - Up to 5 credit (waivers) of Student Arranged Activities (Activities and waivers are summarized in graduate handbook).
  - Waivers are not automatically granted.
  - Arranged activities should not directly advance the students Ph.D. research.

# Anticipated NE Courses (Next 2 Years)

Fall 2023	
4930/6937	Power Plant Simulation
5176	Principles of Nuclear Reactor Operations
5005	Introduction to Nuclear Engineering
6051	Radiation Interactions Basics and Applications 1
6805	Nuclear Materials
6941	Professional Development for Nuclear Engineering Sciences
6937	Nuclear Materials Laboratory

Fall 2024	
4930/6937	Power Plant Simulation
5176	Principles of Nuclear Reactor Operations
5005	Introduction to Nuclear Engineering
6051	Radiation Interactions Basics and Applications 1
6805	Nuclear Materials
6941	Professional Development for Nuclear Engineering Sciences
6937	Nuclear Materials Laboratory

Spring 2024	
4730/6735	Nuclear Security Science
4710/6715	Plasma & Fusion
4300/6305	Intro to Radiochemistry
5176	Principles of Nuclear Reactor Operations
5615C	Nuclear Radiation Detection and Instrumentation
6106	Nuclear Reactor Analysis I
6937	Advanced Radiation Measurements

Spring 2025	
4730/6735	Nuclear Security Science
4710/6715	Plasma & Fusion
4300/6305	Intro to Radiochemistry
5176	Principles of Nuclear Reactor Operations
5615C	Nuclear Radiation Detection and Instrumentation
6106	Nuclear Reactor Analysis I



# IDEA Coalition

Andreas Enqvist, PhD

# IDEA Coalition



- The Department of Materials Science & Engineering champions diversity within our community. We are committed to an inclusive learning environment promoting individual and group empowerment, equity and elimination of discrimination, and our students, faculty and staff are expected to support this mission. Each person will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race or culture.
- <https://mse.ufl.edu/about/idea-coalition/>

# Announcements and Reminders

Ade Kumuyi

# Resources and References

## Academics

- UF Graduate Catalog
  - [Graduate Catalog < University of Florida \(ufl.edu\)](#)
- MSE and NE Graduate Handbook
  - [Student Handbooks – Department of Materials Science and Engineering \(ufl.edu\)](#)
- Academic Forms
  - [Forms – Department of Materials Science and Engineering \(ufl.edu\)](#)
- Student Portal
  - [ONE.UF](#)
- Course Material
  - [eLearning - University of Florida \(ufl.edu\)](#)
- FAQ
  - [Graduate Frequently Asked Questions – Department of Materials Science and Engineering \(ufl.edu\)](#)

# Resources and References

## Career Services

- <https://career.ufl.edu/>
- Erin Lin is the College of Engineering career coach



Email: [elin@ufsa.ufl.edu](mailto:elin@ufsa.ufl.edu)

Phone: 352-273-2319

To schedule an appointment: Log on to [Gator CareerLink](#)

she holds regular events and workshops. See the calendar via the link above.

# Resources and References

## UF Office of Graduate Professional Development

- As part of an on-going commitment to supporting graduate student career skill development, the UF Graduate School has created a centralized place for students to identify resources for skill enhancement and career development. In addition to Erin Lin, this is a great resource for students.
- [Office of Graduate Professional Development - University of Florida \(ufl.edu\)](https://ufl.edu)
  - [Career Exploration & Advancement](#)
    - Platforms to explore career options, learn job strategies, and match different careers with skills interests, and values
    - Guides that provide detailed information on how to lead successful informational interviews.
    - Assistance with identifying internships and helping with the job search.
    - Workshops

# Resources and References

## MSE and NE Events

- [Events – Department of Materials Science and Engineering \(ufl.edu\)](https://www.ufl.edu/~mse/)
  - Seminars
  - IDEA Events
  - MSE/NE Career Fair

# Resources and References

## MSE/NE Student Societies

- Departmental student societies are listed on the MSE/NE website: [Student Societies – Department of Materials Science and Engineering \(ufl.edu\)](http://ufl.edu)
  - Society for Biomaterials (SFB)
  - Alpha Sigma Mu Materials Honor Society
  - American Nuclear Society (ANS)
  - Institute of Nuclear Materials Management (INMM)
  - Materials advantage (MA)
    - Mug drop competition
    - Bladesmithing competition
    - Materials bowl competition



# Resources and References

## UF Student Societies

- Get Involved: [Get Involved | studentinvolvement.ufl.edu](http://studentinvolvement.ufl.edu)
- Benton Engineering Council: <https://www.ufbec.org>
- Engineering Graduate Student Council - (MSE): [Engineering Graduate Student Council \(ufbec.org\)](http://ufbec.org)
- Diversity Focused Organizations:
  - [Diversity Focused Student Organizations - Undergraduate Student Affairs \(ufl.edu\)](http://ufl.edu)
  - [Graduate Student Diversity Organizations – Department of Materials Science and Engineering \(ufl.edu\)](http://ufl.edu)
    - National Society of Black Engineers
    - Society for Asian Scientists and Engineers
    - Society for Hispanics and Professional Engineering
    - Society for Women Engineers
    - Women in Science and Engineering
- Major Specific Organizations: [Major Based Student Organizations - Undergraduate Student Affairs \(ufl.edu\)](http://ufl.edu)
  - Semiconductor Readiness Organization
  - Polymer and Polymer Materials Science and Engineering Divisions ACS
- Community Driven Student Organizations: [Community Driven Student Organizations - Undergraduate Student Affairs \(ufl.edu\)](http://ufl.edu)
- Engineering Honor Societies/ Professional Organizations: [Engineering Honor Societies/ Professional Organizations - Undergraduate Student Affairs \(ufl.edu\)](http://ufl.edu)

# Resources and References

## Living

- Student Housing
  - [Student Housing – Department of Materials Science and Engineering \(ufl.edu\)](#)
- Visit Gainesville Tourism Site
  - [Visit Gainesville, Alachua County, FL | Hotels and events in Gainesville and Alachua County Florida](#)
- Gainesville Regional Airport
  - [Gainesville Regional Airport - Gainesville Regional Airport \(flygainesville.com\)](#)
- Gainesville Transit System
  - [Homepage - Go-RTS](#)

# Resources and References

## General Resources

- Virtual Student Union: Connected Student Experience
  - [Virtual Union | DIVISION OF STUDENT LIFE \(ufl.edu\)](#)
- UF International Center
  - [Home | International Center University of Florida \(ufl.edu\)](#)
- UF Multicultural & Diversity Affairs
  - [Multicultural & Diversity Affairs - MULTICULTURAL AND DIVERSITY AFFAIRS \(ufl.edu\)](#)
- UF Student Health Care Center
  - [Student Health Care Center » College of Medicine » University of Florida \(ufl.edu\)](#)



# GRADSTART

ORIENTATION FOR NEW GRADUATE STUDENTS

- **GradStart** is the Graduate School's home for orientation resources for all incoming graduate students. GradStart is a Canvas-based orientation program. It provides asynchronous modules which contain an introduction to academic expectations at UF, and also includes live workshops and information sessions prior to the beginning of the semester.
- GradStart is accessible through [eLearning](#), and all graduate students are invited to participate prior to each Fall and Spring semester. These resources are not meant to replace program-level activities, which will be held separately.
- Students will be automatically added to this canvas site as we approach the start of the Fall 2023 term. Students will be able to access the course on August 1st. If you don't see the course in your dashboard in Canvas ([eLearning](#)), you must send an email to [gradstart@aa.ufl.edu](mailto:gradstart@aa.ufl.edu). Make sure to include your Gatorlink ID in that email.



## Reserve These Dates

### Placement Exam Deadline (MSE Only)

Monday, August 14<sup>th</sup> at 11:59 p.m. EDT

### Departmental Graduate Orientation (In-person)

Monday, August 21, 2023

11:00 a.m. – 1:30 p.m. EDT

Rhines Hall 125

### Fall Classes Begin

Wednesday, August 23, 2023

### Grab N Go Breakfast

Wednesday, August 23, 2023

8:30a.m. – 10 a.m. EDT

Rhines 125

### Career Fair

Wednesday, September 20, 2023



A night scene of a lake with a firework exploding in the sky and its reflection in the water, framed by trees.

# Closing Remarks

Andreas Enqvist, PhD  
Simon Phillpot, PhD





# Question and Answer Session

**UF** Herbert Wertheim  
College of Engineering  
*Department of Materials Science  
& Engineering*  
UNIVERSITY of FLORIDA