



Computational Mathematics, Science and Engineering

OPEN HOUSE

November 6th, 2025, 10:30am



Agenda

1. Overview of the Department,
2. Introduction of the CMSE PhD Program
 - a. Program Requirements
 - b. Research Opportunities
 - c. Funding Opportunities
 - d. Application package
3. FAQ

CMSE Department

Diverse research opportunities

Comprises **43 faculty**
members

Research opportunities across
computational mathematics,
data science, engineering,
computational biology and
statistics

Weekly seminars and talks
organized by faculty and
partners

Supportive student community

Comprises **60 students**

Tight-knit community with
monthly events and weekly
trivia

Dual PhD opportunities with
other department

Doctor of Philosophy in CMSE

Program Requirements

1

4 core courses
to learn skills
essential for
research
foundation

2

**6 cognate
courses** to
expand on
interests and
professional
goals

3

**24+ research
credits** to help
build
dissertation
foundation
and research
skills

4

**Comprehensive
examination
and
Dissertation
Defense**

See on our website

**Topological Data
Analysis
and
Computational
Mathematics**

**Computational
Medicine and
Computational
Mathematics**

**Computing
Education
Research**

Research opportunities

**Computational
Biology
and
Computational
Neuroscience**

**Physics
and
Astrophysics**

**Chemistry
and Materials
Science**

Dual PhD opportunities

At MSU you can create a unique track, combining your PhD in CMSE with another program

Most popular combinations include:

Dual PhD with Physics

Dual PhD with Astrophysics

Dual PhD with Statistics

Dual PhD with Mathematics

Funding opportunities

Research Assistantships

Advance **your knowledge and skills** in conducting research



Teaching Assistantships

Gain **teaching experience** with our undergraduate and graduate classes



A 4-year guaranteed
comprehensive financial package:

- Tuition waiver up to 9 credits
Fa/Sp semesters
- Biweekly stipend
- Health insurance
- Summer support

Application Package

Domestic applicants

- Personal Statement
- Academic Statement
- CV
- Three (3) letters of recommendation
- Official Transcripts
- GRE not accepted
- Application fee of \$75.00

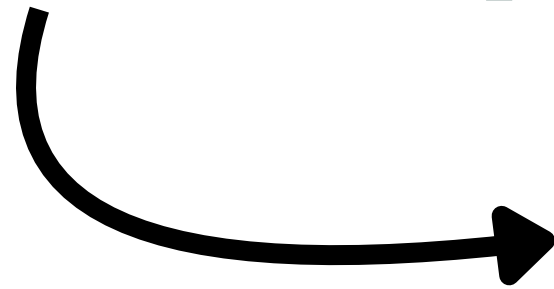
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International applicants

English Language Proficiency exam according with MSU's graduate school Language Competency Requirements

Apply and connect

**Applications due
January 2nd, 2026**



Connect with us at:

**cmsegrad@msu.edu
or cmse.msu.edu**



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FAQ

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