



Information Session  
Spring 2021

SCMP, MSE



# SCMP Program Contacts



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# SCMP MSE Curriculum

The **ten course units** for the Scientific Computing degree are divided into three categories:

1. Foundation Courses (**two course units**)

- Programming Languages & Techniques (CIT 590) or Introduction to Software Development (CIT 591), and
- Algorithms & Computation (CIT 596)

2. Core Requirements (**three course units**)

- Math: Numerical Methods and Modeling (ENM 502) and
- Big Data Analytics (CIS 545), and
- Mining and Learning: Intro to Machine Learning (CIS 519) or Machine Learning (CIS 520) or Modern Data Mining (STAT 571), or Data-driven Modeling and Probabilistic Scientific Computing (ENM 531), or Data Mining: Learning from Massive Datasets (ESE 545)

3. Technical & Depth Area Electives (**five course units**).

- Two courses in which the primary focus is simulation methods for natural science/engineering. Examples include: CBE 525, CBE 544, MEAM 527, MEAM 646, MSE 561, BE 599, BE 567. Program Director approval required
- *AND*
- Two courses either **Thesis/Independent study**
- *OR*
- **Natural Science/Engineering**, any course in which the primary focus is a physical/chemical/biological/mechanical application area that may be studied computationally is permitted. Program Director approval required
- *AND*
- One free elective (subject to approval)

# What is Advanced Registration

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Advance Registration (or Pre-registration) typically takes place in the middle of the semester. During the Spring 2021 semester Advance Registration for the Fall term 2021 will take place **April 13th - April 23rd**. During this time, students will select in Penn in Touch which courses they are interested in. Their selections are considered “requests” at this stage; **they are NOT an official registration.**

# How Does Advance Registration Work?

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Helpful tips and guides:

- You will need to email your faculty advisor to lift your registration hold for Fall before you can participate in advance registration.
- Advance registration is NOT first come first served and the timing of your course requests does NOT matter. The system collects all requests during the advance registration period, and processes them at the end, using a preference based system technique.
- Some requests will be granted, but some will not. The system does not notify students of their request status, therefore students must check their Penn in Touch when registration re-opens to review the ultimate results of their Advance Registration requests.
- After the review period (about two weeks) Penn In Touch will open up again to allow students to register for courses. This is the official start of the registration period, and students will have until the course selection deadline next semester to make changes to their registration.
- At this time we do not know if the Fall courses will be on-campus or online or both. More information will be provided at a later date.

# Fall 2021 Courses + Waitlist Information

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Advance Registration Guide

[Advance Registration Guide 2021](#)

Fall 21 Registration guide for CIS classes

[Fall 21 Registration](#)

- The CIS Waitlist for Fall 2021 will open on April 30th at 9am.

# Academic Support Resources

- [University Catalog](#)
- [Code of Academic Integrity](#) requires that every member of the University community adhere to the principles and spirit of the code.
- [Educational Policies](#) and [Academic Resources](#) relevant to graduate and professional education, including Advising & Mentoring PhD Students, Master's Thesis Style Guide, and Ethics and Original Research Guidelines.
- [Career Services](#) offers an extensive array of services to graduate and professional students including resume reviews, practice interviews, workshops, and on-campus recruiting.
- [The Center for Teaching and Learning](#) is available to graduate students interested in improving as teachers, whether they are working as TAs or preparing to become future faculty.
- [International Student & Scholar Services](#) advises international students on F-1 and J-1 nonimmigrant procedures and compliance with immigration laws and regulations.
- When allowed: [Penn Travel Registry](#) is mandatory for students planning to travel for academic, educational, extracurricular, clinical, research, or University business purposes. Registered travelers are pre-authorized to use International SAS and traveler medical insurance, as well as pre-travel preparations.
- [The Weingarten Learning Resource Center](#) provides professional instruction in skills such as academic reading, writing, and study strategies free of charge to Penn students.
- [Weingarten's Office of Student Disabilities Services](#) provides comprehensive confidential services and programs for students with disabilities to ensure equal academic.

# Application Timelines + Admissions Requirements

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- **SCMP Program**  
Education Master's of Science in Engineering in Scientific Computing



# Stay Connected!

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- **PICS UPenn - Twitter**

<https://twitter.com/PicsUpenn>

- **DATS / SCMP Piazza Group**

[piazza.com/upenn/spring2020/datsscmppenn/home](https://piazza.com/upenn/spring2020/datsscmppenn/home)



# Q & A

