

# COMPUTATIONAL SCIENCE GRADUATE MINOR

<b>Minor Graduate Program Head</b>	Susan Stewart
<b>Program Code</b>	CSCI
<b>Campus(es)</b>	University Park
<b>The Graduate Faculty</b>	View ( <a href="https://secure.gradsch.psu.edu/gpms/?searchType=fac&amp;prog=CSCI">https://secure.gradsch.psu.edu/gpms/?searchType=fac&amp;prog=CSCI</a> )

The Department of Aerospace Engineering administers this interdisciplinary minor. Each student's program is planned by the student and a designated computational science adviser, in consultation with the graduate adviser in the student's major field.

## Minor Requirements

Requirements listed here are in addition to requirements for minors in Graduate Council policies listed under GCAC-600 Research Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>) and GCAC-700 Professional Degree Policies (<https://gradschool.psu.edu/graduate-education-policies/>).

The minor offers an opportunity for students in all colleges and majors to pursue a focused set of courses that emphasize computational science. The minor requires 9 credits in computational science courses for a master's degree and 15 credits for a doctoral minor.

Code	Title	Credits
<b>Required Courses</b>		
Select at least one of the following courses:		3
AERSP 424	Advanced Computer Programming	
CMPSC 450	Concurrent Scientific Programming	
NUCE 530	Parallel/Vector Algorithms for Scientific Applications	
CSE 557	Concurrent Matrix Computation	
Select at least one of the following courses:		3
MATH 523	Numerical Analysis I	
MATH/CSE 550	Numerical Linear Algebra	
STAT 500	Applied Statistics	
STAT/IST 557	Data Mining I	
Select additional credits from a list of approved courses <sup>1</sup>		3-9
<b>Total Credits</b>		<b>9-15</b>

<sup>1</sup> The additional credits will be chosen from a list of approved courses maintained by the graduate minor program.

In addition, for the Master's Minor and Ph.D. Minor the students can use at most 6 and 9 credits, respectively, from (or cross-listed with) their home department.

## Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate

student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

## Contact

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