WHAT IS THE COMPUTATIONAL SCIENCE GRADUATE MINOR?

The minor in Computational Science was created to provide an opportunity for graduate students in all colleges and majors to pursue a focused set of courses that emphasize all aspects of computational science. Computational science involves using computers to study scientific problems and complements the areas of theory and experimentation in traditional scientific investigation. This Minor would be a valuable program for almost any graduate student at Penn State.

Official description:

The Aerospace Engineering Department 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. 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 masters degree (M.S., M.Eng., M.A., etc.) and 15 credits for a doctoral minor. All students must take at least one of these:

- AERP 424, CMPSC 450, NUC E 530, or CSE 557
  **(NOTE: Since many of these are rarely offered, we might accept petitions to use AERP 597, Parallel Computing, Spring, 2019)**

and at least one of these:

- MATH 523, MATH/CSE 550, STAT 500, or STAT/IST 557.

The additional credits will be chosen from a list of approved courses on the CSCI Web site (www.csci.psu.edu).

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

This is one of the most successful programs of its kind in the country, with 359 graduates and 70 more currently enrolled.

For additional information about the graduate minor and **How to Apply**, please see the CSCI Web site: http://www.csci.psu.edu/minor.html

Please contact the graduate advisor in your home department or **Prof. Lyle N. Long** if you have any questions.