



Ohio Supercomputer Center

April 8, 2015

W. Randy Smith
Vice Provost for Academic Programs
The Ohio State University
203 Bricker Hall
CAMPUS

Randy:

I am writing to request a course exemption related to the Arts and Sciences Minor program in computational science. The approved program included the course CSE 1221 Introduction to Computer Programming in MATLAB for Engineers and Scientists. We would require an exception since the course is at the 1000 level.

This course was especially designed for non-CSE majors to provide an introduction to both programming and to modeling and simulation. Modeling and simulation and programming skills are among the key competencies for the minor in computational science. Although there are a few upper level courses in modeling in a few programs, most require a large number of prerequisites in that discipline. Similarly, other programming courses are oriented toward CSE majors and not at the non-majors from other fields. We expect the majority of those choosing the minor program to be from a wide variety of Arts and Sciences fields. CSE1221 will provide them with the requisite knowledge to proceed through the rest of the minor program without a large number of prerequisite requirements.

I would be glad to answer any further questions concerning the minor program and this request.

Sincerely yours,

Dr. Steven I. Gordon
Senior Education Specialist OSC
Professor Emeritus, City and Regional Planning

**The Ohio State University
College of Arts and Sciences**

Computational Science Minor

Arts and Sciences Advising and Academic Services
100 Denney Hall
164 West 17th Avenue
Columbus, OH 43210
<http://ascadvising.osu.edu>

The minor in computational science consists of 18 credit hours of course work:
A simulation and modeling course (CSE 2021, ISE 5100, ME 5372, or MATSCEN 4321), either CSE 1221 or 2221, a numerical methods course (CSE 5361, ECE 5510, MATH 3607, MATH 5401, AERO 3581, or ME 2850), a capstone research or internship using an approved departmental research course designation, one discipline specific computational modeling course (CHEM 5440, MICROBIO 5161H, CSE 3521, CSE 3341, BMI 5730, MATH 5651, PHYS 6810, LING 5801, LING 5802, ECON 4050, ECON 5001, GEOG 5221, PSYCH 5608, PSYCH 5609, PSYCH 5618, OR EARTHSC 5642), and one elective (MATH 2255, MATH 2415, MATH 2568, CSE 5441, CSE 5544, CEG 4760, ECE5759, ISE 3200, or MATSCEN 4181). All courses in the minor except for CSE 1221 **must** be at the 2000 level or above.

After the Arts and Sciences advisor has approved your Minor Program Form, you should file the form with your college or school counselor. For further information about the minor program, contact ASC advising.

Computational Science Minor Program Guidelines

The following guidelines govern this minor.

Required for graduation No

Credit hours required 18 credit hours. At least 6 credit hrs must be at the 3000 level or above.

Transfer and EM credit hours allowed

A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE

A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)

- The minor is interdisciplinary and is available for any major in Arts and Sciences.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s)

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of course graded Satisfactory/Unsatisfactory may count toward the minor

X193 credits No more than 3 credit hours.

Approval required The minor program should be approved by an advisor in ASC Advising or your departmental advisor in ASC. Requests to include in the minor any courses not listed herein must be submitted to the coordinator of the minor program Greg Kilcup, Department of Physics, kilcup.1@osu.edu.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college or school counselor. You should plan to file the form as soon as you have decided to pursue the minor.

Changing the minor program Once the minor program is filed in the college office, any changes must be approved by an ASC advisor or the coordinator of the program.

College of Arts and Sciences
Curriculum and Assessment Services
154 Denney Hall, 164 W. 17th Ave.
<http://artsandsciences.osu.edu>
CAA approved 2/19/14
Revised 4-6-15