



COMPUTATIONAL THINKING AND COMPUTER SCIENCE

Online Programs & Scholarships at the University of Maine

- *Are you or your school facing long-term challenges in incorporating computational thinking and coding into classrooms across the K-12 curriculum?*
- *Are you a teacher that would like to learn computer coding but never had the opportunity?*
- *Would you like to prepare yourself with foundation knowledge and skills in computer science, coding, and digital data handling that will allow you to excel in addressing current and future computer science curriculum and community challenges?*

If you answered **yes** to any of these questions, please read further.

If your interest is primarily at the 8-12 grade levels OR you want to teach courses dedicated to computer programming anywhere within the K-12 grade levels, consider pursuit of either or both of the following:

Master of Science in Information Systems (MSIS)

See online.umaine.edu/grad/master-of-science-in-information-systems

Graduate Certificate in Information Systems

See online.umaine.edu/graduate-certificates/information-systems

The five core courses in these two programs are offered by professors in the School of Computing and Information Science. The programs are **designed to accommodate students from wide-ranging backgrounds** and, thus, incoming students may have no previous computing background. Former education majors are among those that have successfully completed the MSIS degree.

The core courses focus on content knowledge in coding, computer science, and data handling to enable lifelong learning on computing topics. To round out the MSIS degree, the additional five courses may be taken in other domains to meet the individual needs of each student. By example, teachers may want to draw on one or several additional graduate courses from the online **Master of Education in Instructional Technology** to complete the MSIS degree.

Whether your intent is to teach one or more computer science course(s) in K-12 or to incorporate computational thinking and coding into other courses you already teach, the MSIS should place you on solid ground to meet future learning needs as technological changes advance.

Tuition scholarships are available for twenty newly admitted graduate students living in Maine for one course each semester in Fall 2019 and Spring 2020. Apply by submitting the application for the Graduate Certificate program or the full MSIS graduate degree. **Several uncommitted tuition grant opportunities still exist as of August 2019.**

(Turn over for more details.)

Master of Science in Information Systems & Graduate Certificate in Information Systems

HIGHLIGHTS AND CHARACTERISTICS

- Complete a 100% online, all-coursework, 30-credit hours master's degree (10 courses) or a 15-credit hours Information Systems graduate certificate (5 courses).
- Join a cohort of graduate students with wide ranging undergraduate degree backgrounds. Among bachelor's degrees possessed by recent graduates and current students include Accounting, Biology, Business Administration, Ecology, Economics, Education, Engineering, English, Environmental Science, Journalism, Library Science, Music, Sociology, and more.
- Pursue rigorous courses in information systems that address real world problems germane to your students and community.
- Learn to code as well as design and implement complex information systems and data acquisition systems.
- Acquire foundational knowledge that will prepare you well for lifelong learning on computing topics.
- Take the exact same courses as those taken by on-campus graduate students, viewing lectures and completing assignments each week on your own schedule.
- Interact with full-time internationally eminent computing professors who teach the same grad courses on-campus.
- Acquire techniques, ideas, and inspiration to apply immediately on the job.
- Find great new job opportunities within both education and the private business sector.
- Enjoy highly affordable tuition compared to similar high-quality online MSIS graduate programs.
- Want to test the water? Start with the Information Systems Graduate Certificate program and either stop when completed or apply that progress to complete the master's degree.

NOTE: Program courses regularly offered by distance are indicated with by * at <https://umaine.edu/msis/curriculum-and-degree-requirements/>

Rolling admissions allow you to complete the graduate application this summer to begin your first online class in September 2019. Tuition awards also will be awarded on a rolling basis. To ensure skin in the game, tuition scholarship recipients or their schools are expected to pay the graduate application fee (\$50) and any fees affiliated with each course.

To learn more, contact a UMaineOnline Advisor at 207.581.5858 or umaineonline@maine.edu.

For program specific questions, call a Program Coordinator at 207.581.2188 or email Professor Harlan Onsrud, Graduate Coordinator at harlan.onsrud@maine.edu

Apply now at umaine.edu/graduate/apply

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