



## WORKFORCE EDUCATION OPPORTUNITIES & SCHOLARSHIPS INFORMATION SYSTEMS AND COMPUTER SCIENCE

### Online Academic Programs at the University of Maine

- *Are you or your business facing long-term challenges in incorporating computational thinking and the ability to communicate at a technical level with and among staff across your organization?*
- *Are you a Maine resident with at least a bachelor's degree 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 computing challenges in a current or future job?*
- *Do you already have a computer science, engineering, or other highly technical degree but could benefit from formal graduate course work within an information system specialty domain?*

If you answered **yes** to any of these questions, please consider the following **all-coursework, online graduate programs**. These rigorous programs have been **designed to accommodate students from wide-ranging backgrounds**. Incoming students are not required to have any previous computing background. However, those with substantial computing backgrounds have greater flexibility to choose from among the courses most desired to complete their graduate programs.

- **Master of Science in Information Systems (MSIS)**  
- [online.umaine.edu/grad/master-of-science-in-information-systems](https://online.umaine.edu/grad/master-of-science-in-information-systems)
- **Graduate Certificate in Information Systems**  
- [online.umaine.edu/graduate-certificates/information-systems](https://online.umaine.edu/graduate-certificates/information-systems)
- **Master of Science in Spatial Informatics (MSSI)**  
- [online.umaine.edu/spatialinformatics/](https://online.umaine.edu/spatialinformatics/)
- **Graduate Certificate in Geographic Information Systems (GIS)**  
- [online.umaine.edu/graduate-certificates/geographic-information-systems/](https://online.umaine.edu/graduate-certificates/geographic-information-systems/)

The **core courses** in these programs focus on content knowledge in coding, computer science, and data handling to provide fundamental skills to enable lifelong learning on computing topics. The **elective courses** in the graduate distance degrees may be drawn from numerous domains. For instance, those with **business** or **management** interests might want to pursue graduate electives in management information systems and related topics, those with **ecology or natural resources** backgrounds might want to pursue electives in geographic information systems, human computer interaction and virtual reality, those with **computer science** backgrounds might want to pursue electives in cyber security, machine learning, artificial intelligence, spatial informatics, and networking. A wide selection of offerings is available to complete the distance degree programs.

(See next page.)

## 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).

NOTE: Courses offered by distance technologies are labeled with \* at <https://umaine.edu/msis/curriculum-and-degree-requirements/> and at <https://spatial.umaine.edu/courses/>

- No previous computing background needed.
- Join a cohort of graduate students with wide ranging undergraduate degree backgrounds.
- Pursue rigorous courses in information systems that address real world problems germane to yourself, your company, and your 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 the private business sector, non-profit sectors, government, and education.
- Enjoy highly affordable tuition compared to similar high-quality online graduate programs.
- Want to test the water? Start with one of the Graduate Certificate programs and either stop when completed or apply that progress to complete the master's degree.

Whether your intent is primarily to gain fundamental knowledge enabling you to better contribute to problem solving in complex information organization and societal contexts or to gain in-depth knowledge in an information specialty domain, the offered graduate programs 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.** To allow assessment for scholarship granting purposes, please apply by submitting a full graduate application even if intending to stop after acquiring a Graduate Certificate. Admission decisions and scholarship awards (approximate total value of \$2,750 for two courses) will be made on a rolling basis so applying earlier rather than later is highly recommended. To ensure skin in the game, tuition scholarship recipients or their employers are expected to pay the graduate application fee (approx. \$50) and any fees affiliated with each course.

**Rolling admissions allow you to complete the graduate application this summer to begin your first online class in September 2019.**

**To learn more,** contact a **UMaineOnline Advisor** at 207.581.5858 or [umaineonline@maine.edu](mailto: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](mailto:harlan.onsrud@maine.edu).

**Apply now at [umaine.edu/graduate/apply](https://umaine.edu/graduate/apply)**

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