

A New Collaborative Model for Geospatial Technology Education in a Rural Region

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Maine Geospatial Curriculum Consortium

Project Partners & Advisors

- Maine GIS Users Group
- Maine Office of GIS
- CREST CCLI Project
- Maine Dept. of Education
- Maine Learning Technology Initiative
- Maine GeoLibrary Board
- Maine State GIS Stakeholders Group
- Maine Emergency Management Agency
- Center for Community GIS
- Maine Geographic Alliance
- Maine Land Conservation Alliance
- Maine Association of Planners
- Maine Municipal Association
- Maine 4H Extension
- Greenland Point Center
- Maine Sea Grant
- Maine Dept. of Marine Resources
- ESRI, Inc.
- Partnership for Environmental Technology Education (PETE)
- AgrowKnowledge
- Marine Advanced Technology Education Center



A New Collaborative Model for Geospatial Technology Education in a Rural Region

Rural areas & small schools have unique challenges & mandates...

We serve primarily ancillary users

Applications of geospatial technology are different

Schools, businesses, organizations & agencies are smaller

Emerged from national discourse on the future of geospatial technology education & Maine University System Geospatial Technology Consortium



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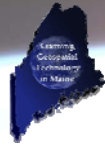
Four initiatives:

- Workforce Study
- New Programs & Curriculum
- Outreach & Student Competition
- Virtual Geospatial Technology Institute



The Promise of Collaboration

- Each partner contributes unique perspectives, skills & resources
 - CCs: Workforce knowledge, applied & adaptable curricula
 - Univs: Research capacity, grant mgt experience, infrastructure teacher education programs
 - K12: Innovative curricula, key to broad adoption of GIS, future students
- Sharing resources is more efficient, esp. in rural areas
- Broader curricular offerings
- Broader geographic reach & diversity



The Challenges of Collaboration

- Different educational goals & priorities
- Different institutional structures, course numbers, etc.
- Trust & respect issues
- Stereotypes
- Reluctant administrators
- Time & money



Overcoming challenges

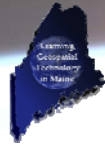
- Articulate common & overlapping goals
- Find creative ways to articulate & share resources
- Follow through with commitments & agreements
- Carefully foster trust & respect
- Professional collaboration, social interaction & sharing of strengths
- Inform administrators (hint: money can be very informative)
- Find resources & mechanisms to provide time & funding for collaborative activities



New Programs & Curriculum

- Shared AS degree at WCCC/UMM
- Certificate, minor and ES/ GIS at UMM
- Certificate & AS degree at KVCC
- Hydrography and GIS curriculum at SMCC
- Courses & revisions in existing programs
- Efforts to reach out to other disciplines

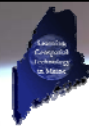
Articulation & cooperation to improve retention, mobility & efficiency



Outreach & Student Competition

- Marketing plans for geospatial technology programs
- Outreach to high school teachers & counselors
- Outreach to faculty in related disciplines
- Annual competition co-sponsored by MEGUG
 - Undergraduates & high school students
 - Poster & GIS/GPS events judged by GIS pros
- Scholarships & prizes
- Workshops & support for teachers

Moving students into college geospatial technology programs



Outreach

- Marketing materials
- Workshops
- Internships
- **K12 Initiatives**

THE UNIVERSITY OF MAINE AT MACHIAS
Naturalist!

Do you love cyberspace and the great outdoors?
Have we got a program for you!

USE AN ONLINE
Use an online program to learn about geospatial technology and the environmental and natural resources of the state. You will learn about GIS, GPS, and other geospatial technology. You will also learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state.

WHAT IS GIS?
The University of Maine at Machias is a leading provider of geospatial technology education. We offer a variety of programs and courses that will help you learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state.

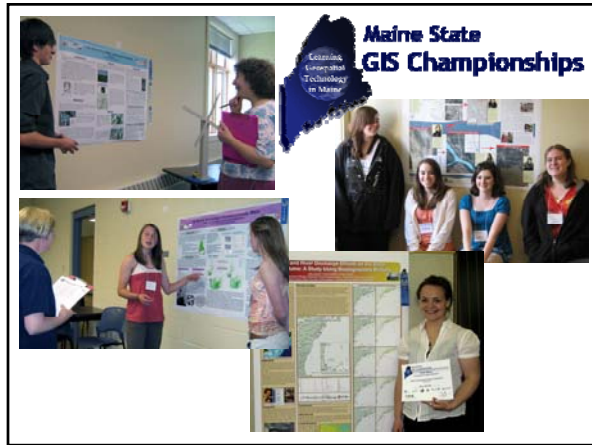
Our professionals are in demand!
The University of Maine at Machias is a leading provider of geospatial technology education. We offer a variety of programs and courses that will help you learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state. You will learn about the environmental and natural resources of the state.

Championships

- Support & assistance for teachers
- Spring Events
 - Poster Session
 - Geocache Event
 - Fun in the Lab
 - College & Career Development



SCHOLARSHIPS!



Maine State GIS Championships

Supplemental Award

- Mobile laptop lab for teacher training
- Maine Learning Technology Initiative
- Laptops for all 7th to 12th graders
- Critical need for training & technical support



Curriculum
Development,
Data Bundle &
Support Materials

- Americorps
Volunteer
- Center for Community GIS
- Maine Learning Technology Initiative

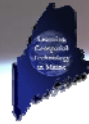


news MLTI Expanding to grades 7-12
Fall 2009

Virtual Geospatial Technology Institute

- Annual meetings with workshops
- Collaborative research
- Collaborative education programs
- Sharing expertise and resources
- Planning for the future

*Building on the University System's Geospatial
Technology Consortium*





Annual Meeting &
Professional
Development



Workforce Study on Education Needs

- Focus on ancillary users in a variety of fields
- Focus group interviews
- Survey research
- Including...
 - Employers
 - Current users
 - Current non-GIS users



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