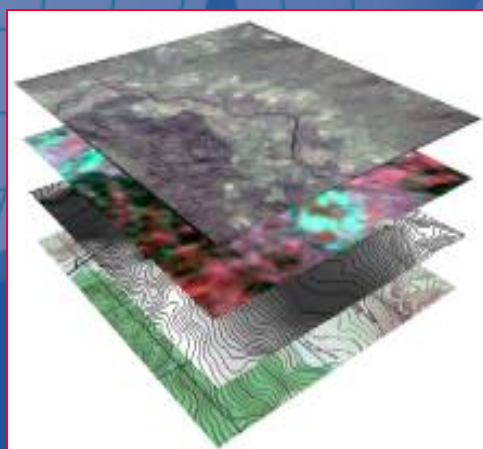
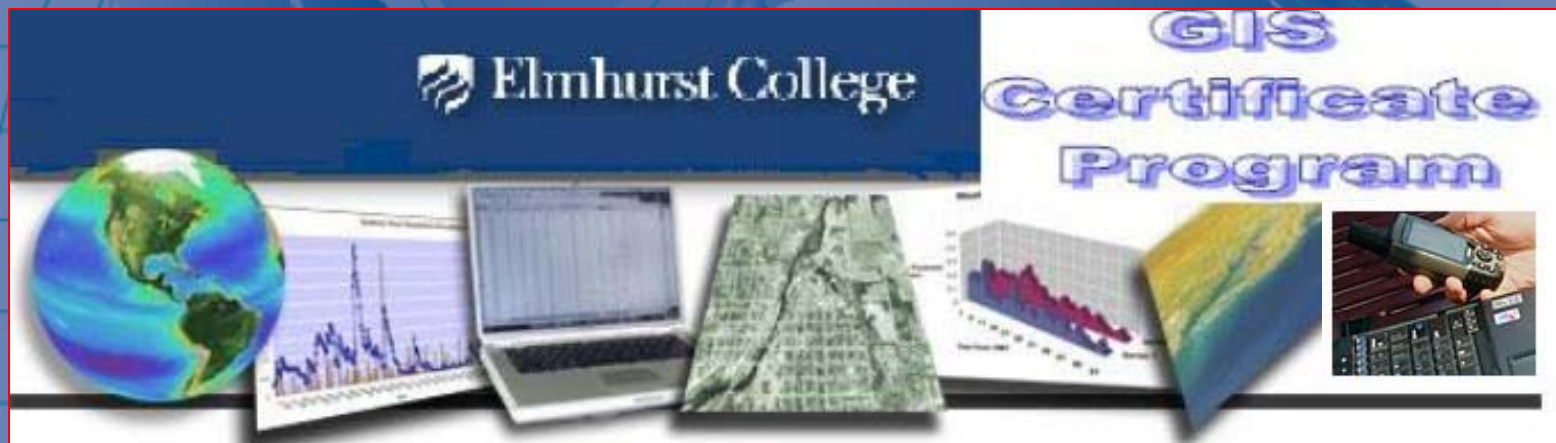


# Geographic Information Systems (GIS) Certificate Program at Elmhurst College



# Elmhurst College's School for Advanced Learning (SAL)

- Elmhurst College

School for Advanced Learning (SAL):

Phone: (630) 617-3300

- E-mail: [sal@elmhurst.edu](mailto:sal@elmhurst.edu)

# Salary Survey of the Urban and Regional Information Systems Association (URISA)

- On average, survey respondents earned \$60,050 in 2006, which represented an increase of 13.8% over the 2003 average of \$52,750. Salaries varied according to job title, location, type of employer and other factors:
  - Consultants experienced the greatest average increase (from an average of \$71,280 in 2003 to a current average annual salary of \$96,786).
  - Respondents employed by county government enjoyed the most significant average salary increase (a 33.3% increase over the 2003 average).
  - Certified GIS Professionals (GISPs) earn, on average, nearly \$9,000 more per year compared to those who are not certified (\$66,308 vs. \$57,669).
- Most respondents (63.7%) were employed within some level of government and held GIS-related job titles (84.6%), such as GIS Manager, GIS Analyst, GIS Coordinator, etc.
  - Nearly two-thirds (63.8%) of respondents indicated that their organizations have increased the number of GIS staff in the past five years.



# Salary Survey of the Urban and Regional Information Systems Association (URISA) (cont.)

- On average, respondents work an average of 42.5 hours in a typical week. They have an average of 13.8 years of professional experience and 9.6 years of GIS professional experience. The average age of those responding was 39.0 years.
- 85% have earned a bachelor's degree or higher. Three-fourths (75.3%) indicated that, at a minimum, a bachelor's degree is required for their position.
- 28% of respondents are Certified GIS Professionals (GISP), and more than half (58.2%) of those who are not certified are planning to apply for GISCI certification within the next three years.
- According to the results of this survey, respondents' jobs require them to be at least somewhat proficient with a variety of GIS software.
- Similar to the results of the 2003 survey, ESRI products were most popular. The leaders included ArcGIS (91.2%), SDE/GeoDatabase (47.9%), ESRI Extensions – Network Analyst, 3D Analyst, Spatial Analyst (46.2%), ArcIMS (37.9%), ArcView (34.3%), and ArcPad (26.7%).

# GIS Programs at Colleges and Universities

- 3,000+ colleges & universities in US and 4,000+ world wide have ESRI software
  - Over 325 programs are listed on the Searchable Database on the Higher Ed web page of ESRI's site
  - 60,000 students a year learning GIS in US schools
- GIS is taught or used in over 70 disciplines and departments
  - » geography, geology, sociology, archeology, computer science, forestry, agriculture, engineering, environmental science, business, drafting, economics, political science, history, etc.
  - » College and university administration

# Who Takes GIS Certificate and Online or Hybrid Courses?

- 75% of Students in Adult-Oriented Programs are Working Professionals
  - Upgrading and Retraining in technology
  - Need for Knowledge in Related Fields
    - » Business, Marketing, Economics, Commerce
- Educators
  - K-12, College and University Personnel
- Recent University Graduates: adding to proficiencies
  - Jobs Require Knowledge of Spatial Concepts
- Traditional undergraduates: minors or double majors
  - Variety of majors who could benefit from GIS
- Our Program is designed with these student needs and time/location restrictions in mind



# Geographic Information Systems (GIS) Certificate Program





# GIS Certificate Program

- Cohort-based; can even be “company-based”
- Hybrid format course (GIS 100) which meets weekly on Tuesday evenings; remainder of course material is presented online so that students may work at their own convenience and pace.
- Remote students currently enrolled: Michigan, North Dakota, and China (military)-students have classroom sessions via *Skype* and *E-Luminate*
- Coursework:
  - Session 1: Summer (June-July)
    - » **GIS 100 Fundamentals of GIS**



# GIS Certificate Program

- Entirely online; can even be “company-based”
- All course materials presented online via a password-protected course management system so that students may work at their own convenience and pace.
- Coursework:
  - Session 1: Fall (August-December)
    - » **GIS 200 Advanced Remote Sensing Techniques**
    - » **ISG 100 Programming with ArcObjects and Python**
  - Session 2: Spring (February-May)
    - » **GIS 300 Capstone: Practical GIS Applications**
    - » **ISG 200 Implementing Geodatabases**
- Students do not necessarily have to enroll for both courses in a given semester.
- All courses facilitated by ESRI Certified Instructors and working professionals in GIS

# How is the course content delivered?

- Course content is delivered via a course management system: BlackBoard.
- Materials are password-protected and only students enrolled in the course can access the course content.
- Instructors post such items as:
  - Course syllabus and schedule
  - Assignments
  - Reading materials
  - Quizzes and exams
  - Pertinent videos
  - Vidcast lectures for student I-Pods

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#### Tools

[Communication](#)[Course Tools](#)[Course Map](#)[Control Panel](#)[GIS 100: FUNDAMENTALS OF GIS \(GIS100\)](#) > COURSE SCHEDULE

## Course schedule





### Course Schedule


[Course Schedule \(78.5 Kb\)](#)[Course schedule link above](#)



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#### Tools

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GIS 100: FUNDAMENTALS OF GIS (GIS100) > COMMUNICATIONS > DISCUSSION BOARD



## Discussion Board

 Forum

 Search

Display Order	Forum	Total Posts	Unread Posts	Total Participants				
1	<b>Professor's Office</b> Use this discussion forum to ask any pertinent questions concerning the course. Your questions may help others.  Do NOT post any private information. See Dr. Schultz during his office hours or send him an e-mail directly: richs@elmhurst.edu	1	1	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>
2	<b>Module 1 Discussion</b> Use this forum to discuss any challenges or concerns with Module 1.	1	1	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>
3	<b>Module 2 Discussion</b> Use this forum to discuss any challenges or concerns with Module 2.	3	3	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>
4	<b>Module 3 Discussion</b> Use this forum to discuss any challenges or concerns with Module 3.	1	1	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>
5	<b>Module 4 Discussion</b> Use this forum to discuss any challenges or concerns with Module 4.	1	1	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>
6	<b>Module 5 Discussion</b> Use this forum to discuss any challenges or concerns with Module 5.	1	1	1	<a href="#">Modify</a>	<a href="#">Manage</a>	<a href="#">Remove</a>	<a href="#">Copy</a>

OK

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GIS 100: FUNDAMENTALS OF GIS (GIS100) &gt; WEB SITES

[EDIT VIEW](#)**Web Sites****ESRI Virtual Campus**

ESRI Virtual Campus. You MUST register for a global account here and provide your username and password to Dr. Schultz.

**GIS.com**

The standard starting point for GIS.

**ESRI**

The GIS software site.

**Geography Network**

Geography Network...get to know it!

**Professional Guidelines**

Professional Guidelines for this (and any) Elmhurst college course.

**Test Taking Strategies that Work**

"Test taking strategies that work": by Dr. R. B. Schultz.

**100 Things Everyone Should Know**

"100 Things Everyone Should Know About Earth Science", as compiled by Dr. R. B. Schultz

# Benefits of GIS Certificate Program

- Many students in our Program are GIS professionals (technicians, analysts, managers) who have been using GIS for many years
- However, they have no formal coursework to qualify for the GISP
- Our courses are accepted by URISA through the GISCI for the national GISP certification
- Having professionals in our Program adds a wealth of experience and contacts which expands our network



# Tuition and Software

- The cost per course is somewhat less than the traditional College for-credit offerings. Consult with the School for Advanced Learning (SAL) for more information:
  - (630) 617-3300
- Students will receive one or more of the following software packages as part of the registration fees:
  - Student Evaluation version of ArcGIS Desktop 9.3 including all extensions (ArcView level)

# Contacts

## ■ Coordinators:

- **Dr. Richard B. Schultz, GIS Coordinator**

- » Phone: (630) 617-3128

- » E-Mail: [richs@elmhurst.edu](mailto:richs@elmhurst.edu)

- **Ms. Linda Krause, IS Coordinator**

- » Phone: (630) 617-3224

- » E-Mail: [lindak@elmhurst.edu](mailto:lindak@elmhurst.edu)

## ■ Elmhurst College

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