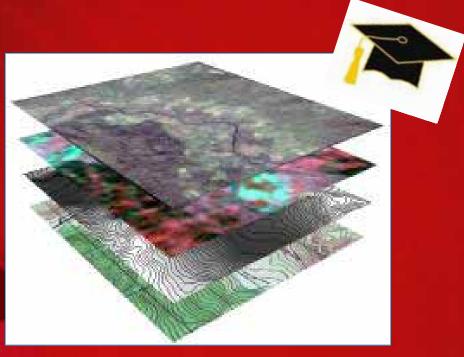
The Development of a Track System for GIS Certificate Programs



R. B. Schultz and Judy Bock



GIS Programs at Colleges and Universities

- 3,500 colleges & universities in US and 4,000 world wide (Phoenix, 2007)
 - Over 315 programs are listed on the Searchable Database on the Higher Ed web page of ESRI's site
 - 50,000 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 Distance Ed 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
 - Jobs Require Knowledge of Spatial Concepts
- The Elmhurst College GIS Certificate Program is designed with these student needs and time/location restrictions in mind

Elmhurst College's GIS Certificate Program

- Original organization of Program had all students in one classroom
- Challenges:
 - Introductory students were "lost"
 - Advanced students were not challenged
 - Limited market around local area
- Positives:
 - Beginners learned from experts
 - Collaborative learning environment

Advancements to the Elmhurst College GIS Certificate Program Began Fall 2006

- Three specific tracks:
 - Introductory (leading to Professional Track admission)
 - Professional Track
 - Educator Track
- Each with specific coursework tailored to goals of students
- Either track can be completed in less than one calendar year

Elmhurst College GIS Certificate Program

Summer Introductory Track

Fall-Spring
Professional Track

Fall-Spring
Educator Track

Elmhurst College GIS Certificate Program

Summer Introductory Track

Fall-Spring
Professional Track

Fall-Spring
Educator Track

GIS Certificate Program Introductory Track

- Cohort-based; can even be "company-based"
- Hybrid format which meets weekly on Wednesday evenings; remainder of course material is presented online so that students may work at their own convenience and pace.
- Coursework:
 - Summer Session: June-July
 - GIS 100 Fundamentals of GIS
- Successful completion of Introductory Track course meets requirements for acceptance into Professional Track.

Elmhurst College GIS Certificate Program

Summer Introductory Track

Fall-Spring
Professional Track

Fall-Spring
Educator Track

GIS Certificate Program Professional Track

- Entirely online; can even be "company-based"
- All course materials presented online via a 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
 - Session 2: Spring (February-May)
 - GIS 300 Capstone: Practical GIS Applications
 - ISG 200 Implementing Geodatabases
- All courses facilitated by ESRI Certified Instructors and working professionals in GIS
- Capstone course taught by ESRI employee.

Elmhurst College GIS Certificate Program

Summer Introductory Track

Fall-Spring
Professional Track

Fall-Spring Educator Track

GIS Certificate Program Educator Track

- Cohort-based; can even be "institution-based"
- Hybrid format which meets bi-weekly on Wednesday evenings; remainder of course material is presented online via a course management system so that students may work at their own convenience and pace.
- Coursework:
 - Session 1: Fall (August-December)
 - GIS 100 Fundamentals of GIS
 - Session 2: Spring (February-May)
 - GIS 300 Capstone: GIS in Society: Teaching Methods

Tuition and Software

Tuition

- The cost per course is somewhat less than the traditional College credit offerings. Consult with the School for Advanced Learning (SAL) for more information: (630) 617-3300
- All classes are "for" college credit; tuition reimbursements are available for most organizations
- Scholarships are available

Software:

- Depending on the track students enroll in, they will receive one or more of the following software packages as part of the registration fees:
 - ArcGIS 9.x including all extensions (ArcMap level)
 - Google Earth Pro (Educator Track only)

Contacts

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