

Geographic Information Systems Basic Certificate Program

Harold Washington College
Physical Science Department

30 East Lake Street
Chicago, IL 60601



The application of GIS technology is limited only by the imagination of those who use it.

ESRI, 2006

PRINCIPAL FEATURES FOR THE BASIC CERTIFICATE IN ENVIRONMENTAL GEOGRAPHIC INFORMATION SYSTEMS SCIENCE:

- 1. This innovative program offers students an entry point to the GIS profession or to matriculate to a bachelor degree program in GIS science. It allows the students to continue in multiple career options in a variety of sectors requiring GIS technologies and spatial-critical-thinking skills.
- 2. The GIS concentration classes are based on hands on activities, using ArcGIS software, providing the students with fundamental training in raster and vector GIS techniques, skills, tools, and knowledge in GIS.
- 3. Assessment of student learning will focus on the capstone project in which students will demonstrate their abilities and skills to solve spatial problems using GIS techniques and tools. The outcomes for this activity will follow industry standards for presenting results.
- 4. The entire program requires 6 classes for a total 21 credit hours; 13 of which are transferable. The program can be completed in two semesters.

For additional information contact:

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Certificate in Basic Environmental Geographic Information Systems (GIS)
Physical Science Department
Harold Washington College

Curriculum (Program 00760264)	Course Prefix/# Course Title	Credit hours	Lecture Contact Hours	Lab Contact Hours
General Education Courses (required Coursework) <i>(T) = Transferable.</i>	0045-0125 <i>Mathematics 125</i> Introductory Statistics (T)	4	4	0
	0035-0101 <i>English 101</i> Composition (T)	3	3	0
	0032-0120 <i>Computer Information Systems 120</i> Intro to Microcomputers	3	3	0
	0084-0201 <i>Geography 201</i> Physical Geography. (T)	3	3	0
	OR 0075-0201 <i>Geology 201</i> Physical Geology (T)	3	2	2
Total		13		
Career and Technical Education Courses (required coursework)	0076-0201* <i>Physical Science 201</i> Fund. Vector GIS	4	2	4
	0076-0202* <i>Physical Science 201</i> Raster GIS & Remote Sensing	4	2	4
Total		8		
Total Credit Hours Required for Completion		21		

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