Geography Certificate Award and Concentration Programs

Personal Data:

Name: _____

Campus Address: _____

Home Address: _____

Telephone: Campus: _____ Home: _____ Work: _____

Social Security Number: _____ Major: _____

	Previous Colleges & Place of Current Employment:	Dates:	Credits or Degrees Earned:
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____

Date of Entry to Geography Department _____ Intended Date of Program Completion: _____

Program entered: Certificate Award _____ Concentration ____

SUMMARY OF PERSONAL AND CAREER GOALS

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Overview of Certificate and Concentration Programs

Objectives of the Certificate Program. The major goal of the certificate program is to provide those who have already earned a bachelors degree and who are currently working in the mapping sciences or who aspire to enter these professions an opportunity to gain the knowledge and technical competence required to succeed in their careers. Because we anticipate that those entering the program will come from diverse backgrounds and will aspire to various goals, we have decided to keep the requirements flexible so that we can tailor the program to fit the needs of its participants. Thus, the courses from which students can select are from four disciplines: computer science, geography, management information systems, and mathematics. To assure technical competence, we will require students to demonstrate competency in at least three of these four areas. Students entering the program will complete an assessment designed to ascertain their level of competency at the outset. Program advisors will use the results of the assessment along with the student's goals to plan the student's program. All students will take a set of at least seven courses [21 S.H.] selected in consultation with the program advisor.

Objectives of the Concentration Program. The major goal of the concentration program is to provide interested students who aspire to enter mapping science professions or who wish to use the techniques of these professions in their work an opportunity to gain the knowledge and technical competence required to succeed. Because we anticipate that those entering the program will come from diverse departments and will aspire to various goals, we have decided to keep the requirements flexible so that we can tailor the program to fit the needs of its participants. The courses from which students can select are from four disciplines: computer science, geography, management information systems, and mathematics. To assure technical competence, we will require students to demonstrate basic competency in at least three of these four areas. Students entering the program will complete an assessment designed to ascertain their level of competency at the outset. Program advisors will use the results of the assessment along with the student's goals to plan the student's program. All students will take a set of at least seven courses [21 S.H.] selected in consultation with the program advisor.

Certificate and Concentration Program Courses

Business Courses	**Course Number**	**Date**	**Grade**	**S.H.**
End-User Computing: Database Management [1 s.h.]	MIS 02.210			
Design of Database Systems	MIS 02.338			
Computer Science Courses	**Course Number**	**Date**	**Grade**	**S.H.**
Introduction to programming	CS 01.102			
Computer Science and Programming	CS 04.103			
Data Structures and Algorithms	CS 04.222			
Programming Languages	CS 04.315			
Mathematics Courses	**Course Number**	**Date**	**Grade**	**S.H.**
Precalculus Mathematics	MATH 01.122			
Calculus: Techniques and Applications	MATH 03.125			
Calculus I	MATH 01.130			
Calculus II	MATH 01.131			
Discrete Mathematics	MATH 03.150			
Geography Courses	**Course Number**	**Date**	**Grade**	**S.H.**
Introduction to the Mapping & G I Sciences	GEOG 06-193			
Cartography	GEOG 06-306			
Remote Sensing / Air Photo Interpretation	GEOG 06-308			
Remote Sensing II	GEOG 06-309			
Land Use and Resource Development	GEOG 06-310			
Geography of Transportation	GEOG 06-313			
Spatial Analysis	GEOG 06-314			
Field Studies	GEOG 06-315			
Computer Cartography	GEOG 06-320			
Advanced Cartography	GEOG 06-321			
Quantitative Methods	GEOG 06-350			
Metropolitan and Regional Planning	GEOG 06-355			
GIS I	GEOG 06-360			
GIS II	GEOG 06-415			