Crime Analysis Certificate Proposal
(Requirements and Curriculum)

Introduction
The Criminal Justice Department has developed a new option for Criminal Justice majors leading to a Certificate in Crime Analysis. The proposed Crime Analysis Certificate is a response to technological innovations and high employment demands in the criminal justice community. Recent innovations in the field of data collection, data storage, data analysis, and geographic information sciences (GIS) enable crime analyst (through the applications of remote sensing, geocoding, spatial analysis, spatial statistics, spatial databases, crime mapping, and GIS/cartography) to better understand and then present data in both mapped and tabular forms. The new certificate will provide students with an educational option designed to prepare them for employment (or enhance their employment) as crime analysts in federal, state, and local law enforcement and public safety agencies. Students pursuing an education in this new option will receive a structured course of study that focuses learning in three disciplines: Criminal Justice, Crime Analysis, and Computer Science. As a capstone to their studies, students will also complete a 400-hour practicum in a federal, state, or local crime analysis unit.

Requirements
This is a very technical and demanding option, yet it offers great employment opportunities. Seats are limited in each year's cohort to 18 to 20 students. Cohort's form each Fall Term. Priority will be given to students who are academically well qualified. Students seeking a Crime Analysis Certificate must major in Criminal Justice and minor in Computer Science and complete the following course of study:

Course of Study

MTH-243	Introduction to Probability and Statistics	(4) (grade of B or better)

GIS Core

CJ-245	GIS Maps and Spatial Information	(4)
CJ-341	Introduction to Geographic Information Sciences	(4) or ES341 or GEOG341
CJ-342	Strategic Analysis of Crime	(4)
CJ-421	Policy Analysis in Criminal Justice	(4)
CJ-430	GIS Capstone	(4)
CJ-432	Advanced Criminal Investigations	(4)
	Subtotal	28

Core Criminal Justice Courses (Required of all CJ students)

CJ-213D	Introduction to CJ	(4)
CJ-219D	Ethics and Leadership in CJ	(4)
CJ-252	American Court Systems	(4)
CJ-327W	Research Methods in CJ	(4)
CJ-331D	Police and Community	(4)
CJ-351	Criminal law	(4)
CJ-427	Quantitative Methods	(4)

CJ-450D	Criminology	(4)
CJ-453	Corrections	(4)
CJ-407W	Seminar	(4)
CJ-409	Practicum (with a Crime Analysis Unit)	(8)

Total 76

Minor

Students seeking a Crime Analysis Certificate must minor in Computer Science and completed the following courses

CS-160	Survey of Computer Systems	(3)
CS-161	Computer Science I	(5)
CS-162	Computer Science II	(5)
CS-260	Data Structures I	(3)
CS-420	Database Management Systems	(3)
CS-453	Data Mining/Warehousing	(3)
CS-409	Practicum	(2)
IS-421	Database Administration	(3)

Total 27