

## Liverpool John Moores University

Title: Mapping Crime: People, Place and Harm  
Status: Definitive  
Code: **5014CRIM** (117876)  
Version Start Date: 01-08-2012

Owning School/Faculty: Humanities and Social Science  
Teaching School/Faculty: Humanities and Social Science

Team	Leader
James Hollinshead	Y
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**Academic Level:** FHEQ5      **Credit Value:** 24.00      **Total Delivered Hours:** 62.00  
**Total Learning Hours:** 240      **Private Study:** 178

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	16.000
Online	2.000
Workshop	44.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Portfolio of GIS exercises. 3 Submissions: 04/11/2011, 02/12/2011, 10/02/2012	50.0	
Essay	AS2	Report or Case Study	50.0	

### Aims

1. To explore spatial theories on crime, and techniques for spatial analysis and modeling of criminological and social data using GIS.

2. *To examine the application of mapping techniques and Geographic Information Systems/Science to crime data.*

3. *To explore issues of data management, quality, protection and privacy.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Explain and critically assess basic spatial theories of and approaches to crime and crime analysis (aims 1 & 2).
- 2 Carry out basic crime analysis in GIS, including spatial statistical analysis, and techniques for cluster/hotspot and temporal analysis of crime distributions (aim 2).
- 3 Relate spatial crime analysis to wider sociological and criminological concepts and theories (aim 3).

## **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Portfolio of GIS exercises	2	3
Report or Case Study	1	3

## **Outline Syllabus**

1. *History and development of spatial approaches to crime, and crime mapping/analysis techniques.*
2. *Spatial theories of crime.*
3. *Handling spatial data, crime/thematic mapping and cartography.*
4. *Crime mapping use, abuse and misuse.*
5. *Basic spatial statistics and techniques for crime analysis.*
6. *Use of industry standard GIS application for crime analysis.*
7. *Case study of application of crime mapping and GIS.*

## **Learning Activities**

1. Lectures, computer workshops, library and www search, data capture and processing.
2. Self-paced learning to gain a working knowledge of ArcGIS 9.x, particularly the Spatial Analyst and Crime Analyst extensions.
3. GIS-based investigations and reporting on selected problems, using real world crime data, with report preparation and basic cartographic presentation of results.
4. Evaluation of real-world applications of spatial theories and GIS technology to crime analysis through case study.

## **References**

<b>Course Material</b>	Book
<b>Author</b>	Canter, D. and Youngs, D.
<b>Publishing Year</b>	2008
<b>Title</b>	Principles of Geographic Offender Profiling
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Ashgate
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Canter, D. and Youngs, D.
<b>Publishing Year</b>	2008
<b>Title</b>	Applications of Geographic Offender Profiling
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Ashgate
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Chainey, S and Ratcliffe, G.
<b>Publishing Year</b>	2005
<b>Title</b>	GIS and crime mapping
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Wiley, Chichester
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Hirschfield, A. and Bowers, K. (Eds.)
<b>Publishing Year</b>	2001
<b>Title</b>	Mapping and analyzing crime data:
<b>Subtitle</b>	lessons from research and practice
<b>Edition</b>	
<b>Publisher</b>	Taylor and Francis
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Goldsmith, V. (Ed.)
<b>Publishing Year</b>	2000
<b>Title</b>	Analysing crime patterns:
<b>Subtitle</b>	frontiers of practice
<b>Edition</b>	
<b>Publisher</b>	Sage, London
<b>ISBN</b>	

<b>Course Material</b>	Journal / Article
<b>Author</b>	Harries, K.

<b>Publishing Year</b>	1999
<b>Title</b>	Mapping crime:
<b>Subtitle</b>	principles and practice
<b>Edition</b>	
<b>Publisher</b>	National Institute of Justice, Washington, DC
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Krygier, G. and Wood, D.
<b>Publishing Year</b>	2005
<b>Title</b>	Making Maps:
<b>Subtitle</b>	a visual Guide to Map Design
<b>Edition</b>	
<b>Publisher</b>	GIS, Guilford
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Longley, P.A., Goodchild, M.F., Maguire, D.J. and Rhind, D.W.
<b>Publishing Year</b>	2011
<b>Title</b>	Geographic Information Systems and Science
<b>Subtitle</b>	
<b>Edition</b>	3rd edition
<b>Publisher</b>	Wiley
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Tyner, J.A
<b>Publishing Year</b>	2010
<b>Title</b>	Principles of Map Design
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Guilford
<b>ISBN</b>	

## Notes

This module aims to examine the history, development and application of mapping techniques and use of Geographic Information Systems/Science to crime data. It explores spatial theories on crime, and techniques for spatial analysis and modelling of criminological and social data using GIS. Issues of data management, quality, protection and privacy are also considered.