DATE: OCTOBER 3, 1994 ACADEMIC

New Course: B: Department: SOCIAL SCIENCES

Information Form

DATED: JUNE 198

A: 2 C: GEOGRAPHY 170 D: INTRODUCTORY CARTOGRAPHY

Course No. Descriptive Title Semester Credit Subject &

ndar Description: Summary of Revision: F: Calen

the art, science and technology of map 1984-10-03 of cartography-

ection F,N,O,P,Q,R making. Topics include: map projections, elementary S

field survey, interpretation of aerial photography

codesic methods and air

roduction to com design, thematic mapping, and an int

The course is designed for geography students but

mental field mans or who plan to work in any environ

Laboratory 3 Hrs.

Seminar Hrs.

Course for which this course is Clinical Experience Hrs. J:

Field Experience Hrs.

Hrs. in Geography are strongly advised Shop

Hrs. to include this course. Studio

Other Hrs. K: Maximum Class Size: 25

TOTAL 5 HOURS M: Transfer Credit:

Requested

L: College Credit Transfer Granted

Equivalents or Specify Course

og (3)

og 250 (3)

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OTHER:

INTRODUCTORY CARTOGRAPHY

Geography 170

(Use Bibliographic Form):

INTRODUCTORY CARTOGRAPHY

Geography 170

Content

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P: Course

1. Introduction to Carto
Cartography Within Physi
History and Development

2. Geodesy
Shape of the Earth, Geo
Dimensions of the Earth

3. Map Projections
Planar, Conic and Cylindrical Projections
Distortion in Map Projections
Attributes of Projections: Conformality, Equivalence, Distance, Direction
Employment of Map Projections

4. Map Elements
Geographical and Cartesian Coordinate Systems
Direction Indicators
Map Titles, Data and Legends

5. Topographic Maps
Basic Map Elements
Construction of Isolines from Spot Height Data
Construction of Topographic Profiles
Calculation of Vertical Exaggerat
ion and Gradients

6. Field Surveying
Principles of Spatial Location
Field Survey Techniques
Error
Sources and Types of
ald Survey Data
Map Creation From Fi

7. Remote Sensing
Electromagnetic Radiation and Film
Aerial Photography
que Photography
on
- Vertical and Obli
- Scale Determinati
- Stereoscopy
- Image Displacement
- Height Measurement
Ordering Air Photographs from the National Library
Satellite Imagery
- Geostationary and Sun-Synchronous Orbits
ndsat and Eosat
ectral Bands
- La
- Sp
Radar, Infrared and Microwave Scanner
Applications of Remotely-Sensed Images