

DATE: October 1, 1984

REVISION: ACAD 840

New Course:

Department: SOCIAL SCIENCES

DATE: JUNE 1984

C: GEOGRAPHY 170 D: INTRODUCTORY CARTOGRAPHY
Course No. Descriptive Title

Under Description: Summary of Revision: F. Gale
the art, science and technology of map making. Topics include: map projections, elementary
field surveying, interpretation of aerial photography, design, thematic mapping, and an int
roduction to com
The course is designed for geography students but
manuscript who plan to work in any environ

Laboratory 3 Hrs.
Seminar Hrs.
Clinical Experience Hrs.
Field Experience Hrs.
Course for which this course is
in Geography are strongly advised
to include this course.
Shop
K: Maximum Class Size: 25
TOTAL 5 HOURS
M: Transfer Credit: Requested

College Credit Transfer Granted X Specify Course

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OTHER:

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INTRODUCTORY CARTOGRAPHY

Geography 170

(Use Bibliographic Form):

1. Introduction to Cartography Within Physical Geography
 History and Development

2. Geodesy
 Shape of the Earth
 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
 Contour Interval
 Calculation of Vertical Exaggeration
 Slope and Gradients

6. Field Surveying
 Principles of Spatial Location
 Field Survey Methods
 Sources and Types of Field Survey Data
 Map Creation From Field Survey Data

7. Remote Sensing
 Electromagnetic Radiation and Film
 Aerial Photography
 Vertical and Oblique
 Scale Determination
 Stereoscopy
 Image Displacement
 Height Measurement

Ordering Aerial Photographs from the National Library
 Satellite Imagery
 Geostationary and Sun-Synchronous Orbits
 Landsat and Eosat
 Spectral Bands
 Radar, Infrared and Microwave Scanner
 Applications of Remotely-Sensed Images

