

28308 - Thematic cartography

Syllabus Information

Academic Year: 2019/20

Subject: 28308 - Thematic cartography

Faculty / School: 103 - Facultad de Filosofía y Letras

Degree: 419 - Degree in Geography and Land Management

ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Compulsory

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practical exercises with GIS software, group work, autonomous work and study. A portfolio is required from any student, which consists of a collection of the learners work done over the course and shows the development of their acquired knowledge.

Students are expected to participate actively in the class throughout the semester.

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials.

4.2.Learning tasks

The course includes the following learning tasks:

- Lectures (34 hours)
- Interactive, individual and/or group activities (22 hours)
- Guided tasks (36 hours)
- Field work (4 hours)
- Autonomous work and study (78 hours)
- Assessment tasks (3 hours)

- Information skills course (8 hours)

4.3.Syllabus

The course will address the following topics:

1. The Geographic and Cartographic Framework
2. The cartographic process
3. Planning and Composition
4. Base map and thematic data
5. Symbolization
6. Decision-making process
7. Layout Design
8. Making maps
9. Critique of maps

4.4.Course planning and calendar

The course is divided into 9 sections and 30 sessions. The first section includes the following topics: Definitions and basic concepts; it runs during the first week of the semester. The second, third and fourth sections include the cartographic framework and runs during the following four weeks. The fifth, sixth and seventh sections include the map design process and runs during the following 10 weeks. The eighth section includes the map making process and it is developed during all the semester as practical activities. The final section covers the critique of maps the final weeks of the semester.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Facultad de Filosofía y Letras website (<https://fyl.unizar.es/horario-de-clases#overlay-context=horario-de-clases>)

4.5.Bibliography and recommended resources

- Bertin, Jacques. *Semiology of graphics : diagrams, networks, maps* / Jacques Bertin. 1967
- Brewer, Cynthia A.. *Designing better maps :a guide for GIS users* / Cynthia A. Brewer. Redlands, Calif. : ESRI Press, 2005
- Dent, Borden D.. *Cartography : thematic map design* / Borden D. Dent, Jeffrey S. Torguson, Thomas W. Hodler . 6a ed. New York : McGraw-Hill Higher Education, 2009
- *Thematic cartography and geovisualization* / Terry A. Slocum ... [et al.] . - 3rd ed. Upper Saddle River, NJ : Pearson Prentice Hall, cop.200
- Zanin, Christine. *Savoir faire une carte : Aide à la conception et à la réalisation d'une carte thématique univariée* / Christine Zanin, Marie-Laure Trémélo . Paris : Belin, D.L. 2010
- Brewer, Cynthia A.. *Designed maps : a sourcebook for GIS users* / Cynthia A. Brewer . - 1st. ed. California : ESRI, 2008
- Denègre, Jean. *Sémiologie et conception cartographique* / Jean Denègre.
- *Elements of cartography* / Arthur H. Robinson...[et al.] . - 6th ed. New York [etc.] : John Wiley & sons, cop. 1995
- MacEachren, Alan M.. *How maps work : representation, visualization, and design* / Alan M. MacEachren New York ; London : Guilford Press, cop. 2004
- Peterson, Gretchen N.. *GIS cartography : a guide to effective map of design* / Gretchen N. Peterson. . Boca Raton : CRC Press, c2009.
- Poidevin, Didier. *La carte moyen d'action :conception - réalisation* / Didier Poidevin. Paris : Ellipses, cop. 1999
- *The map reader : theories of mapping practice and cartographic representation* / edited by Martin Dodge, Rob Kitchin and Chris Perkins Oxford : Willey-Blackwell, 2011
- Tyner, Judith A.. *Principles of map design* / Judith A. Tyner New York [etc] : Guilford, 2010