



Syllabus

Term: 2026/27/1 **Subject name:** Introduction to ArcGIS **Subject code:** AFOLNS-0101

Unit (Unit code) Institute of Geography and Earth Sciences (FOLDRAJZ)

Lecturer responsible for the course: Dr. PIRKHOFFER Ervin Balázs

Requirement: Term mark

Classes per week : 0/3/0

Classes per term: 0/39/0

Purpose of education:

To provide basic understanding of the ArcGIS Pro software environments.
To apply GIS concepts to resolve contemporary problems in physical and human geography.

Knowledge:

On successful completion of this course students are expected to have an understanding of spatial patterns of various geographical entities.

Subject-specific skills:

Student became familiar with basic functions of GIS, methods of data capture and sources of data, the nature and characteristics of spatial data and objects.

Contents:

- Week 1 Brief history of the Geographical Information System and the ArcGIS software.
- Week 2 Starting of ArcGIS Pro: environmental settings, project based applications.
- Week 3 Making of Feature Classes, designing of domains, complex topological examination on geodatabase.
- Week 4 Basics of the user interface: Catalog, Table of Contents, Maps, Scenes, basic settings of the spatial reference systems.
- Week 5 Bookmarks saving and sharing maps and views.
- Week 6 Base map functions, other freely available data and maps in ArcGIS Pro.
- Week 7 The structure of the shape file and other data interchange formats.
- Week 8 Midterm exam.
- Week 9 Symbology: display quantitative and qualitative attributes.
- Week 10 Creating and designing maps: fundamentals of digital cartography.
- Week 11 Fundamentals of object oriented databases, variables and attributes.
- Week 12 Select by Attributes and Select by Location
- Week 13 Final exam.

System of examing and valuation:

Evaluation is based on homework points, one midterm exam on week 8 and one final



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System of examining and valuation:

written exam at the end of the semester. Exams: both theory and practice.

Grading percentages may vary but approximate ranges are the followings:

just less than 50% = 1

50 to 64.99% = 2

65 to 74.99% = 3

75 to 84.99% = 4

85+% = 5

Attendance at all activities will be monitored. Students who fail to attend the activities, or to complete the summative or formative assessment specified above, will not gain the credit for the course.

Bibliography:

User Help of the ArcGIS Pro.

Bibliography: