

## Medical Informatics and Statistics

The primary objective of this course is to achieve fundamental understanding of the theory and use of common medical statistics methods. The course focuses on data collection and analysis in its benefit of medical decision.

My goal is to help you to better learn, understand and use basic applied statistical principles and methods. This goal is challenging since the covered topics are complex and interdependent and are not similar to any other courses. The materials in this course are valuable and provide basic knowledge needed to proper understanding of any medical article. The information presented in this course are sequentially connected and the once topics are learned they continue to be applied later. For this reason, missing steps can be devastating. I recommend making every effort to keep up and to let me know when you do not understand. The questions during the lectures and practical activities will not be considerate in the final mark.

Having taught this course for several years I continue to look for ways to enhance the learning environment. My recommendation is to study in small groups (who can study regularly together) because stimulate active learning.

### Lectures and Textbooks

Both lectures and practical activities and discussions are considered to be the most important element of the course. You are expected to attend all classes and to participate fully.

Computer: A computer with Internet connection will allow you to access extra learning resources beside the copy of the lectures and practical activities. Of special value are the homework for each chapter.

Microsoft Word, Excel, and PowerPoint will be used beside the EpiInfo program.

### Grading and Tests

Your course grade will be based on a weighted average of your work as indicated bellow:

Practical exam (30%)

Theoretical exam (70%)

Theoretical exam is of multiple choice types and it is comprehensive for the semester. I strongly recommend that you study both practical and theoretical exam examples which are available on my webpage.

You will need your calculator for theoretical exam.

### Attendance

Students are expected to attend all class sessions and to respect the university rules and regulation regarding this subject.

### Make-Up Policy

Attendance at an exam session is done by complete the exam form available on my webpage.

### Other Matters and Useful Materials

Away from the classroom, my preferred communication method is via e-mail ([sbolboaca@umfcluj.ro](mailto:sbolboaca@umfcluj.ro)), but I am available during office hours for face-to-face consultations based on a previous schedule.

The class websites are <http://www.info.umfcluj.ro/en/> & <http://sorana.academicdirect.ro/> . The website is updated periodically as needed.

If you have special needs in this class please let me know very early.

Academic misconduct such as cheating and plagiarism will result in a failing course grade. This course syllabus provides a general plan for the course; deviations may be necessary.