# UNIVERSIDAD DE CASTILLA - LA MANCHA
## GUÍA DOCENTE

## 1. General information

**Course:** HEALTH SCIENCES STATISTICS

**Type:** BASIC

**Degree:** 387 - UNDERGRADUATE DEGREE PROGRAMME IN NURSING (TO)

**Center:** 109 - FACULTAD DE FISIOTERAPIA Y ENFERMERÍA

**Year:** 1

**Main language:** Spanish

**Use of additional languages:**

**Web site:**

**Code:** 15304

**ECTS credits:** 6

**Academic year:** 2023-24

**Group(s):** 41

**Duration:** C2

**Second language:**

**English Friendly:** Y

**Bilingual:** N

| Lecturer: **JUAN CARLOS DOMÍNGUEZ GUTIÉRREZ** - Group(s): **41** | | | | |
|---|---|---|---|---|
| **Building/Office** | **Department** | **Phone number** | **Email** | **Office hours** |
| | MATEMÁTICAS | | JuanCarlos.Dominguez@uclm.es | |

| Lecturer: **RAUL MARTIN MARTIN** - Group(s): **41** | | | | |
|---|---|---|---|---|
| **Building/Office** | **Department** | **Phone number** | **Email** | **Office hours** |
| Edificio 21 / 1.25 | MATEMÁTICAS | 925268800 Ext. 5375 | raul.mmartin@uclm.es | |

| Lecturer: **CRISTINA PALOMINO ROSADO** - Group(s): **41** | | | | |
|---|---|---|---|---|
| **Building/Office** | **Department** | **Phone number** | **Email** | **Office hours** |
| | MATEMÁTICAS | | Cristina.Palomino@uclm.es | |

## 2. Pre-Requisites

Not established

## 3. Justification in the curriculum, relation to other subjects and to the profession

Not established

## 4. Degree competences achieved in this course

### Course competences

| Code | Description |
|---|---|
| A16 | To describe the primary health care level and the activities to be developed in there to provide comprehensive nursing care to the individual, the family and the community. To understand the function and activities and cooperative attitude that the professional has to develop in the Primary Health Care team. To promote the participation of people, family and groups in their health-disease process. To identify the factors related to health and environmental problems, to assist people in situations of health and illness as members of a community. To identify and analyze the influence of internal and external factors on the individuals¿ and groups¿ health. To apply the necessary methods and procedures in their work area to identify the most relevant health problems in a community. |
| B02 | To master the Information and Communication Technologies (ICT). |
| B03 | To demonstrate a correct oral and written communication. |
| C01 | Learning to learn. |
| C03 | To apply critical, logical and creative thinking, demonstrating innovation skills. |
| C04 | To work autonomously with responsibility and initiative. |
| C05 | To work in a team in a collaborative way and shared responsibility. |
| C06 | To communicate information, ideas, problems and solutions clearly and effectively in a specific public or technical field. |

## 5. Objectives or Learning Outcomes

### Course learning outcomes

Description

Understanding of the scientific method.

Interpretation of hypothesis tests.

Accept responsibility of their own learning-process and professional development, using assessment as a means of reflecting and improving their performance.

Demonstrate skills in the use of information and communication technologies.

Determination of the dependence and independence of qualitative and quantitative variables.

Application of the above concepts in the different proposed studies.

Knowledge of the principles of health research.

Estimation of the test statistics, parameters and probability.

Identification and resolution of a statistical issue: variables, data, population, sample, tables and graphics.

Work and communicate effectively with all team members.

Use of professional language that encourages communication in the collaborative work group both in oral and/or written form.

## 6. Units / Contents

**Unit 1:**

**Unit 2:**

**Unit 3:**

**Unit 4:**

**Unit 5:**

**Unit 6:**

**Unit 7:**

## 7. Activities, Units/Modules and Methodology

| Training Activity | Methodology | Related Competences (only degrees before RD 822/2021) | ECTS | Hours | As | Com | Description |
|---|---|---|---|---|---|---|---|
| Class Attendance (theory) [ON-SITE] | Lectures | A16 B03 C03 | 1.2 | 30 | N | - | |
| Workshops or seminars [ON-SITE] | Problem solving and exercises | A16 B02 B03 C01 C03 C04 C05 C06 | 1.04 | 26 | Y | Y | |
| Writing of reports or projects [OFF-SITE] | Self-study | A16 B02 B03 C01 C03 C04 C05 C06 | 0.8 | 20 | Y | N | |
| Study and Exam Preparation [OFF-SITE] | Self-study | A16 B02 B03 C01 C03 C04 C05 C06 | 2.8 | 70 | N | - | |
| Final test [ON-SITE] | Assessment tests | A16 B02 B03 C03 C06 | 0.16 | 4 | Y | Y | |
| | | **Total:** | **6** | **150** | | | |
| | **Total credits of in-class work: 2.4** | | | | | **Total class time hours: 60** | |
| | **Total credits of out of class work: 3.6** | | | | | **Total hours of out of class work: 90** | |

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

## 8. Evaluation criteria and Grading System

| Evaluation System | Continuous assessment | Non-continuous evaluation* | Description |
|---|---|---|---|
| Assessment of activities done in the computer labs | 20.00% | 0.00% | |
| Final test | 70.00% | 100.00% | |
| Assessment of problem solving and/or case studies | 10.00% | 0.00% | |
| **Total:** | **100.00%** | **100.00%** | |

*According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject , an ordinary and an extraordinary one (evaluating 100% of the competences).*

## 9. Assignments, course calendar and important dates

| Not related to the syllabus/contents | |
|---|---|
| **Hours** | **hours** |
| Final test [PRESENCIAL][Assessment tests] | 3 |

| **Unit 1 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 4 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 2 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |
| Group 41: | |
| **Initial date:** 29-01-2024 | **End date:** 09-02-2024 |

| **Unit 2 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 8 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 4 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |
| Group 41: | |
| **Initial date:** 05-02-2024 | **End date:** 23-02-2024 |

| **Unit 3 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 8 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 4 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |
| Group 41: | |
| **Initial date:** 19-02-2024 | **End date:** 08-03-2024 |

| **Unit 4 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 5 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 2 |

| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
|---|---|
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |

| Group 41: | |
|---|---|
| **Initial date:** 11-03-2024 | **End date:** 22-03-2024 |

| **Unit 5 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 5 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 2 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |

| Group 41: | |
|---|---|
| **Initial date:** 18-03-2024 | **End date:** 19-04-2024 |

| **Unit 6 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 4 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 2 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |

| Group 41: | |
|---|---|
| **Initial date:** 22-04-2024 | **End date:** 26-04-2024 |

| **Unit 7 (de 7):** | |
|---|---|
| **Activities** | **Hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 6 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 3 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 3 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 10 |

| Group 41: | |
|---|---|
| **Initial date:** 29-04-2024 | **End date:** 10-05-2024 |

| **Global activity** | |
|---|---|
| **Activities** | **hours** |
| Class Attendance (theory) [PRESENCIAL][Lectures] | 40 |
| Workshops or seminars [PRESENCIAL][Problem solving and exercises] | 17 |
| Writing of reports or projects [AUTÓNOMA][Self-study] | 20 |
| Study and Exam Preparation [AUTÓNOMA][Self-study] | 70 |
| Final test [PRESENCIAL][Assessment tests] | 3 |
| **Total horas:** | 150 |

## 10. Bibliography and Sources

| Author(s) | Title/Link | Publishing house | City | ISBN | Year | Description |
|---|---|---|---|---|---|---|
| Cobo Valerí, E. | Bioestadística para no estadísticos: bases para interpretar | Elsevier Masson | Barcelona | 978-84-458-1782-7 | 2010 | |
| Pardo Merino, Antonio | Análisis de datos en ciencias sociales y de la salud | Pearson Education | Madrid | 978-84-975664-7-6 | 2014 | |
| Martínez González A, Sánchez-Villegas A, Toledo Atucha EA, Faulin Fajardo J | Bioestadística amigable / | Elsevier, | Barcelona | 978-84-9022-500-4 | 2014 | |
| Martín Andrés, A. | Bioestadística para las ciencias de la salud (+) | Norma-Capitel | Madrid | 84-8451-018-2 | 2004 | |
| Pérez López, César (1955-) | Técnicas de análisis de datos con SPSS 15 / | Pearson Educacion, | Madrid | 978-84-8322-601-8 | 2009 | |
| Álvarez Cáceres, Rafael | Estadística aplicada a las ciencias de la salud | Díaz de Santos | Madrid | 978-84-7978-823-0 | 2007 | |