**Self-report of relevant courses for the Master in Statistics for Data Science**

1. **Instructions**

This document is designed to self-report your background in Mathematics, Statistics, and Computer Science and help determining your grade in the "Qualifications obtained in relevant courses to take the master" field (20%). It is **compulsory** to students that **do** **not** have a BSc in Statistics, Mathematics, Physics, Computer Science, Industrial Engineering or Telecommunications Engineering. Please:

* Report the courses that you have taken with a significant component in each of the three categories.
* Report the study program (Bachelor, Master, etc.) in which you took each course, mentioning its institution.
* Enter the grade of the course, either in your country’s academic system or in the sworn translation to the Spanish system. If the course does not have a grade, report NA.
* Enter the grade range of the course (0-10 for Spain, 0-20 for France, F-A+ for US, 0-100 for China, etc.)
* Briefly describe the contents of each course from its syllabus.
* Report up to ten relevant courses in the rows provided.
* See the examples as a guideline. Remove them to only report the courses that you have taken.

A course can only be entered into **one category**. Any **incoherence** with the academic record will lead to a **null score**.

1. **Personal information**

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| **Name** |  | **Surname(s)** |  | **Graduation year** |  |
| **Bachelor** |  | **Institution** |  |

1. **Relevant courses in Mathematics**

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| **Course** | **Study program and institution** | **Brief contents description** | **Credits** | **Grade** | **Grade range** |
| Mathematics for Data Science | MSc in Statistics for Data Science (Universidad Carlos III de Madrid) | Linear systems. Vectors. Matrices. Diagonalization. Orthogonality. Symmetric matrices. See <https://aplicaciones.uc3m.es/cpa/generaFicha?est=345&asig=17752&idioma=2> | 3.0 | 9.00 | 0-10 |
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1. **Relevant courses in Statistics**

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| **Course** | **Study program and institution** | **Brief contents description** | **Credits** | **Grade** | **Grade range** |
| Probability | MSc in Statistics for Data Science (Universidad Carlos III de Madrid) | Random experiments. Discrete random variables. Continuous random variables. Random vectors. Properties of the expectation. Limit theorems. See <https://aplicaciones.uc3m.es/cpa/generaFicha?est=345&asig=17753&idioma=2> | 3.0 | 8.75 | 0-10 |
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1. **Relevant courses in Computer Science**

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| **Course** | **Study program and institution** | **Brief contents description** | **Credits** | **Grade** | **Grade range** |
| Programming in R | MSc in Statistics for Data Science (Universidad Carlos III de Madrid) | Basics of programming I (types of data and control structures). Basics of programming II (advanced data structures). Data visualization and ggplot2. Introduction to some useful packages in R. Simulations. Parallel programming. Debugging, profiling and presentation of results with R Markdown. See <https://aplicaciones.uc3m.es/cpa/generaFicha?est=345&asig=17759&idioma=2> | 3.0 | 9.25 | 0-10 |
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