





Program: IPSDS, International Program in Survey and Data Science

Degree: Professional Master's degree

Partners: JPSM/University of Maryland; University of Mannheim **Websites:** https://jpsm.umd.edu/landingtopic/online-programs

https://survey-data-science.net/

Characteristics of the IPSDS Professional Master's

Audience

The IPSDS degree is a "professional degree" and therefore geared towards students who are already working in the field. The program is international; students are located around the globe. The language of instruction is English.

Credits/Offerings

The Professional Masters is 30 credits in Maryland and 75 ECTS in Mannheim. The curriculum focuses on breadth and offers many introductory courses to fulfill students' education needs. There are some core courses (explained in the Curriculum section).

Terms/Semesters

Fall Semester: September 1st – December 15

Spring Semester: January 15 - May 15

Summer Term: June 1st – August 15 (very few courses, mostly in June)

Curriculum for IPSDS

There are 5 focus areas for the curriculum. Some courses are designated as essential to becoming a survey and data scientist and labeled as "core". Some core courses are mandatory (outlined in black in the table below) and others are optional. The core courses in Maryland and Mannheim vary slightly, but participants of both universities attend the courses together. To achieve the Maryland degree, students must complete 19 core credits across the 5 focus areas and 11 elective credits. To achieve the Mannheim degree, students must complete 56 core ECTS across the 5 focus areas and 4 elective ECTS.

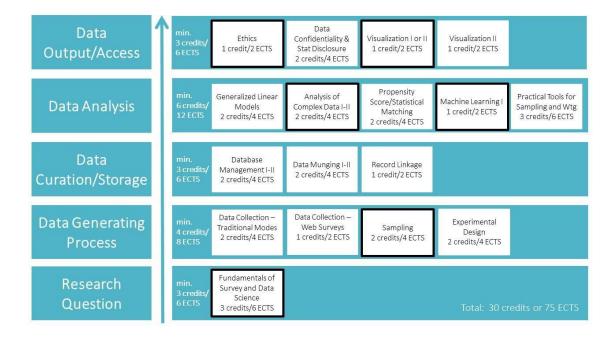
- Fundamentals of Survey and Data Science
 - o Overview of survey lifecycle and errors in survey and big data
 - o Preferred that this is the first course completed
 - o Can serve as a prerequisite for other courses
- Electives can be courses not listed as core + core courses not taken to fulfill a requirement







Examples of elective (but not core) courses: Web scraping, Usability
Testing in Surveys, Small Area Estimation, Measurement Error Models



Instructor Information

- Course website administered using Canvas. All material for the class should be here, organized by week. All communication should be through the website.
- Weekly discussions (50 minutes) using video conferencing system "Zoom"
- Number of credits correlates with number of units/weeks of instruction
 - 1 credit = 4 units/weeks
 - 2 credits = 8 units/weeks
 - 3 credits = 12 units/weeks

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