

## Sample 4-Year Plan: Physics and Data Science

Below is a sample 4-year plan that shows how students might navigate both the Physics major and Data Science major. This plan indicates both potential areas of overlap and non-overlap. We do not require all double majors to follow this plan, nor do we require all students to overlap the maximum number of courses between the two majors. This plan is provided as a tool for students to understand the potential course load between the two majors.

Review the full curriculum for both majors in the Guide and contact relevant advisors for information on course selection.

- Physics Guide: <https://guide.wisc.edu/undergraduate/letters-science/physics/#degreesmajorscertificatestext> (select either Physics BA or BS)
- Data Science Guide: <https://guide.wisc.edu/undergraduate/letters-science/statistics/#degreesmajorscertificatestext> (select either Data Science BA or BS)

Please note that the Physics major presumes students come in with credit for MATH 221 and 222, which are both required for the DS major and serve as prerequisites for PHYSICS courses.

|               | Fall                                           |                                      | Spring                                                  |                                                              |
|---------------|------------------------------------------------|--------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|
|               | Physics Major Courses                          | DS Major Courses                     | Physics Major Courses                                   | DS Major Courses                                             |
| Year 1        | PHYSICS 247 (5), MATH 234 (4)                  | COMP SCI 220 (4)                     | PHYSICS 248 (5), MATH 319 (3)                           |                                                              |
| Shared/Gen-ed | Electives and gen-ed courses                   |                                      | MATH 340 (3), electives and gen-ed courses              |                                                              |
| Summer        | DS major course: STAT 240 (4)                  |                                      |                                                         |                                                              |
| Year 2        | PHYSICS 249 (4), PHYSICS 311 (3), MATH 321 (3) |                                      | PHYSICS 301 (1), PHYSICS 322 (3), MATH 322 (3)          |                                                              |
| Shared/Gen-ed | Electives and gen-ed courses                   |                                      | Electives and gen-ed courses                            |                                                              |
| Year 3        | PHYSICS 448 (3), PHYSICS 415 (3),              | COMP SCI 320 (4)                     | PHYSICS 307 (2), PHYSICS 449 (3)<br><br>PHYSICS 361 (3) | Data Science Ethics (3-4)                                    |
| Shared/Gen-ed | Electives and gen-ed courses                   |                                      | Electives and gen-ed courses                            |                                                              |
| Year 4        | PHYSICS 321 (4)                                | Advanced Computing (3), STAT 340 (4) |                                                         | Statistical Modeling (3), DS elective (3)<br>DS elective (3) |
| Shared/Gen-ed | Electives and gen-ed courses                   |                                      | Electives and gen-ed courses                            |                                                              |

