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* + Department of Computer and Information Sciences
  + Bachelor of Science/Master of Science

 Computer Science (BA/BS) or Information Systems (BS) and Master of Science in Data Science

The Master of Science in Data Science is being combined with all three Bachelors degrees offered by the Department of Computer & Information Sciences in 4+1 Bachelors/Masters combinations.  For shorthand, we will use the designation 4+1 Bx/MSDS.  There are 3 majors, and all 3 have an honors version.  The undergraduate majors are: Computer Science (BS), Computer Science (BA), and Information Systems (BS).

The Department’s undergraduate programs provide a very good background for the MSDS. Our students typically receive training in computing, data representation and manipulation, fundamental mathematics, statistics and probability. Adding this degree for one more year of study opens many possible doors for employment in industry, commerce, or government, as well as for graduate school.

The Department of Mathematical Sciences and the Department of Electrical and Computer Engineering are expected to approve all of their respective majors being offered in 4+1Bx/MSDS combinations as well.  There will be a separate proposal for each of those department's majors.  The program policy statement uploaded with this proposal initially anticipates that these degree programs will be approved.

In all cases, the Bx degree requirements must be satisfied, the MSDS requirements must be satisfied, six graduate credits from the MSDS may be applied towards the Bx degree, and the Bx degree must be completed before the start of the +1 year.

There is also a curriculog proposal for non-4+1 changes.

* **List any courses from outside departments being added to the curriculum:\***

none

WHEREAS, the University of Delaware has established an interdisciplinary Master of Science in Data Science (MSDS) which has already admitted a small number of students for its first semester, and

          WHEREAS, all such national and regional data suggest a significant demand for the training in data science, which requires expertise in mathematics, computer science, statistics, as well as a domain (or application) field, and

          WHEREAS, the program allows students to take courses in three departments and in application domains; such flexibility allows training in different categories of positions, and

          WHEREAS, the proposed master in data science program can offer training with breadth and depth, placing graduates from the program in a better position to lead in new techniques in data science and analytics, and

          WHEREAS, the proposed program will contribute to a strategic initiative in data science on campus, and

          WHEREAS, the program could provide well-prepared applicants for those data intensive Ph.D. programs such as Financial Service Analytics or Bioinformatics, or for Ph.D. programs in Mathematics, Computer Science, and Statistics, as well as other application fields,

          WHEREAS, a number of majors around campus give excellent background for the new MSDS program, including all of the majors from the Department of Mathematical Sciences, the Department of Computer and Information Sciences, and the Department of Electrical and Computer Engineering, and

          WHEREAS, the three departments named above have all approved the offering of 4+1 Bachelors/MSDS options for all of their undergraduate majors, and

          WHEREAS, the executive committee of the MSDS has approved the offering of 4+1 Bachelors/MSDS options for all of those undergraduate majors, and

          WHEREAS, students in the program can be expected to pay for their courses of study, which will generate revenue for the university; be it therefore

          RESOLVED, that the Faculty Senate recommends provisional approval of the establishment of 4+1 Bachelors/MSDS degree for all of the Bachelors degrees offered by these departments.

* + **Michael Fennell**

[Reply](https://udel.curriculog.com/proposal:3515/form)

12/13/2018 8:58 am

We will need to create three individual proposals for this (but with the same core structure), as we continue to sort out this massive +1 in Data Science effort. Therefore I did not change the title, but that will need altered.   
  
Simply put, this is no different that the Bachelor of Engineering or Science/Master of Materials Materials Science and Engineering. The Catalog software will allow REGO to build individual programs for each, since that is something that easier on the back-end than for Faculty to figure out on the front-end. Should Graduate/Undergraduate Studies, Coordinating or Executive require individual proposals REGO will work with CISC to accomplish their demands.

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