

Certificate of Graduate Study (COGS) Computational Data Science

Program Information

The Certificate of Graduate Study (COGS) in Computational Data Science is designed to offer students the opportunity of a specialized study to provide students with experience in key courses of data science at the graduate level.

Certificate of Graduate Study in Computational Data Science 12 s.h.

Students seeking this COGS will be required to take 2 required courses and 2 restricted electives. This COGS is “stackable.” That is, all of the courses count for the MS in Data Science and many count for the MS in Computer Science.

Required Courses:	Counts As:
DS 02510 Visual Analytics (3 s.h.)	Required Course for MS Data Science
CS 02505 Data Mining I (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
Elective Courses:	Counts As:
CS 02530 Advanced Database Systems: Theory and Programming (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 02570 Information Visualization (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 02605 Data Mining II (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 02620 Data Warehousing (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 02625 Data Quality and Web/Text Mining (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 02630 Advanced Topics in Database Systems (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
CS 07556 Machine Learning I (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
ECE 09555 Advanced Topics In Pattern Recognition (3 s.h.)	Required Course for MS Data Science Elective for MS in Computer Science
STAT 02515 Applied Multivariate Data Analysis (3 s.h.)	Required Course for MS Data Science Elective for MS in Mathematics
STAT 02514 Decision Analysis (3 s.h.)	Required Course for MS Data Science Elective for MS in Mathematics