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4342

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4340

4030

4300

4370

B D A must be passed before B (prerequisite). C must be passed before or

concurrently with D (corequisite).

Students with an introductory programming background, but without 1250 transferred in, can request to start with 2250. They will have 1250 credited upon successful completion of 2250.

1250 and 2250 can be taken in one semester as a combo course (one after another in half semesters).

Math electives not shown, consult the Bulletin

Note that Cmp Sci 3130 allows more electives but the certificate can be completed without 3130.

UMSL: Data Science Certificate, Computational Option

The undergraduate certificate in Data Science is a five-course (15 credit hour) program. It provides skills, both statistical and computational, and technologies for the growing and popular fields involving data science and analysis. A student pursuing this certificate can choose from one of the two tracks, the computational track or the statistical track. Each track consists of three required courses (9 credit hours) and two plus three additional elective courses (6 credit hours). A minimum GPA of 2.5 is required for admission. A minimum of three courses must be taken from UMSL. Courses may be substituted with the permission of the certificate coordinator. For more information,

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	Available evening	0
	Available online	0
	Available Fall	F
	Available Spring	P
	Available Summer	S