

# Data Analytics & COSE Majors

2023 Catalog

QMST 2300 Introduction to Analytics	1 statistics course from: AG 3352 CJ 3347 GEO 3301 HDFS 2311 HP 3325 IE 3320 MATH 2328 MATH 3305 PA 3311 PH 3315 PS 3315 PSY 2301 & 2101 SOCI 3307 QMST 2333	1 computing/programming course from: AG 4371X CS 1342 CS 1428 GEO 4420 HIM 4331 PHYS 2230 QMST 3341	2 prescribed electives from: <i>Must be different than courses chosen for the computing/programming and/or algorithms/data mining requirements.</i>		
		1 algorithms/data mining course from: CS 4315 EE 4331 GEO 4412 IE 4340 IE 4342 PHYS 3418 QMST 3339	ACC 3323 AG 4382 ARTC 4314R BIO 4425 CHEM 3276 CHEM 3380 CHEM 3381 CIS 3382 CIS 3389 CIS 4349 CIS 4399 CS 4332 CS 4346 CS 4347 CS 4380 ECO 4313 ECO 4381G EE 3326 EE 4332 FCS 4303	FIN 4380J FM 3330 FM 4331 GEO 2420 GEO 2426 GEO 2427 GEO 3411 GEO 3426 GEO 4356 GEO 4420 GEO 4424 HIM 3311 HIM 4320 HIM 4331 IE 3305 IE 3330 IE 3340 IE 4310 IE 4330 IE 4370 MATH 3305	MATH 3328 MATH 3376 MATH 3383 MATH 4305 MC 4325 MC 4337 ME 4355 MKT 3370 MKT 4340 NUTR 3303 PH 3370 PHIL 4361F PHYS 4305 PSY 4390R QMST 3334 QMST 4314 QMST 4320 SOCI 3318 SOCI 4308 TECH 3364

COSE Major	Statistics Course	Computing/ Programming Courses	Algorithms/ Data Mining Courses	Prescribed Elective #1	Prescribed Elective #2
Any Biology	MATH 2328	CS 1342 or CS 1428	(QMST 3339 requires MATH 2328) QMST 3339	BIO 4425	CHEM 3276 (if also BCHM minor)
Any Chemistry	MATH 2328	CS 1342 or CS 1428	QMST 3339	CHEM 3380	CHEM 3381
BA: Computer Science	MATH 2328 or MATH 3305	CS 1428	CS 4315	CS 4332 or 4346 or 4347	CS 4332 or 4346 or 4347
BS: Computer Science (with or without concentration)	MATH 3305	CS 1428	CS 4315	CS 4332 or 4346 or 4347	CS 4332 or 4346 or 4347
Civil Engineering	IE 3320	CS 1342	No recommendation	MATH 3376	No recommendation
Electrical Engineering	IE 3320	CS 1428	EE 4331	EE 3326	EE 4332
Industrial Engineering	IE 3320	CS 1342	IE 4340	IE 3330 or 3340 or 4310 or 4370	IE 3330 or 3340 or 4310 or 4370
Manufacturing Engineering	IE 3320	CS 1342	EE 4331 or IE 4342	IE 3330	No recommendation
Mechanical Engineering	IE 3320	CS 1342	EE 4331	ME 4355	QMST 4320
Concrete Industry Management	MATH 2328	CS 1342 or CS 1428	QMST 3339	TECH 3364	No recommendation
Construction Science & Management	MATH 2328	CS 1342 or CS 1428	QMST 3339	TECH 3364	No recommendation
Engineering Technology (not electrical concentration)	IE 3320	CS 1342 or CS 1428	No recommendation	TECH 3364	No recommendation
Engineering Technology: Electrical Engineering Technology	IE 3320	CS 1428	No recommendation	TECH 3364	No recommendation
Applied Mathematics	MATH 3305	CS 1428	No recommendation	MATH 3376	MATH 3383
Mathematics	MATH 3305	CS 1428	No recommendation	MATH 3383	MATH 4305
Any Physics	MATH 3305 or MATH 2328	PHYS 2230	PHYS 3418	PHYS 4305	No recommendation