

# Data Analytics & COSE Majors

2024 Catalog

ANYL 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  
SOC 3307  
QMST 2333

1 computing/programming  
course from:  
AG 4371X  
CS 1342  
CS 1428  
GEO 4420  
HIM 4331  
PHYS 2230  
QMST 3341

1 algorithms/data mining  
course from:  
CS 4315  
EE 4331  
GEO 4412  
IE 4340  
IE 4342  
PHYS 3418  
QMST 3339

2 prescribed electives from:  
*Must be different than courses chosen for the computing/programming and/or  
algorithms/data mining requirements.*

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  
SOC 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