

### Approved BSE MATH/STAT Equivalent - Course Listing

<b>FST 5984</b>	Advanced Data Analytics for Food and Ag Sciences
<b>BSE/CEE 5324</b>	Adv GIS in Hydrologic Analysis
<b>CSES 5304</b>	Adv. Plant Genetics and Breeding
<b>AOE/MATH 4404</b>	Applied Numerical Methods
<b>FREC 5244G</b>	Advanced Hydroinformatics
<b>BSE 5124</b>	AI & Cyber in Water Systems and Agriculture
<b>GEOG 4324/5384</b>	Algorithms in GIS / Programming for GIS
<b>ALS 5406</b>	Analysis of Animal Experiments with SAS
<b>GEOG 5034</b>	Analysis of Spatial Data
<b>CEE 5174</b>	Applied Analytics for Env. Science and Civil Eng.
<b>ME 5984</b>	Applied Machine Learning
<b>CEE 5600</b>	Civil Infrastructure Systems Analysis
<b>CS/BIOL/GBCB 5424</b>	Computational Cell Biology
<b>CE 6010</b>	Computational Methods in Civil Engineering
<b>ESM 6984</b>	Computational Multiscale Methods
<b>CEE 5984</b>	Data Analysis Env Sci & Eng.
<b>FST 5984</b>	Data Analytics for Food and AG Science
<b>CS 5045</b>	Data Sciences
<b>ENT 6004</b>	Design and Analysis of Agricultural Experiment
<b>CHE 5984</b>	Engineering Data Analysis
<b>BMES/BSE/CHE 5044</b>	Engineering Mathematics
<b>CEE 5984 (MAE 6410)</b>	Engineering Mathematics 1
<b>BAE 590</b>	Env. and Agricultural Data Analytics and Modeling
<b>CEE 5724</b>	Environmental Monitoring and Sampling
<b>ESM 5984</b>	Fundamentals of Mechanics
<b>BGU30045</b>	Geovisualization and Geostatistics
<b>ALS 5224</b>	Introduction to Genomic Data Science
<b>CS 5805</b>	Machine Learning I
<b>CEE 5984</b>	Modeling of Environmental Flows
<b>NSEG 5134</b>	Monte Carlo Methods for Particle Transport
<b>ESM 5414</b>	Nonlinear Systems
<b>CEE 4324/5384</b>	Open Channel Flow/Advanced Open Channel Flow
<b>CEE 5140</b>	Pollutant Fate and Transport in the Environment
<b>CEE 5984 (MAE 6430)</b>	Probability and Statistics for Engineers and Scientists
<b>CHE 4134</b>	Process Modeling
<b>GEOG 5984</b>	R Programming for Geospatial Applications
<b>CEE 5314</b>	River Mechanics and Sediment Transport
<b>ME 5104</b>	Thermodynamics: Foundations/Applications
<b>BSE 4304/5304G</b>	Watershed Modeling/Advanced Watershed Modeling