

MUEP students who wish to further develop competency in methods are encouraged to choose from the following list of approved advanced methods courses. Some courses are offered outside of SGSUP and therefore are subject to change. View the [Schedule of Classes](#) for the most current course offerings.

Course Number	Course Title
ABS 560	Ecological Modeling
AML 591	Special Topic: Modeling with Game Theory
AML 591	Modeling with Game Theory
AML 612	Applied Mathematics for the Life and Social Sciences Modeling Seminar
ASM 424/591	Dynamic Modeling in Social and Ecological Systems
ASM 591	Special Topic: Dynamic Modeling of Social & Ecological Systems
CDE 591	Advanced Bayesian Analysis
CDE 591	Exploratory and Confirmatory Factor Analysis
CDE 598	Latent Growth and Mixture Models with Longitudinal Data
CEE 598	Trans Data Collection Analysis
CEE 598	Transportation Safety Analysis
COM 507	Qualitative Research Methods in Communication
COM 508	Quantitative Research Methods in Communication
COM 608	Multivariate Statistical Analysis of Data in Communication
COM 609	Advanced Qualitative Research Methods in Communication
COM 692	Advanced Qualitative Data Analysis
CRD 502	Statistical and Data Analysis
CRD 620	Community Research Methods
CRJ 503	Research Methods
CRJ 511	Applied Data Analysis in Criminal Justice
CRJ 604	Advanced Statistical Analysis
CRJ 605	Topics in Quantitative Methods
CRJ 613	Qualitative Methods
ECN 525	Applied Regression Models
ECN 527	Categorical Data Analysis
EDP 552	Multiple Regression and Correlation Methods
EDP 554	Analysis-of-Variance Methods
EXW 645	Advanced Applied Methods and Data Analysis
EXW 701	Advanced Research Methods II
FAS 508	Structural Equation Analysis for the Social Sciences
GCU 542	Geographical Analysis of Transportation
GIS 561	Fundamentals of Spatial Optimization
GIS 471	Geographic Information Analysis
GIS 562	Location Analysis Modeling
GPH 569	Digital Analysis of Remotely Sensed Data

GPH 598	Special Topic: Advanced Digital Analysis
NUR 608	Qualitative Research Design and Methods
NUR 609	Quantitative Research Design and Methods
NUR 612	Advanced Analysis of Variance: Design and Analysis of Experiment
PAF 505	Public Policy Analysis
PSY 532	Analysis of Multivariate Data
PSY 533	Structural Equation Modeling
PSY 534	Psychometric Methods
PSY 536	Statistical Methods in Prevention Research
PSY 537	Longitudinal Growth Modeling
PSY 539	Multilevel Models for Psychological Research
SMC 541	Foundations of Simulation & Modeling
SOS 540	Statistical Modeling for Sustainability
STP 530	Applied Regression Analysis
STP 531	Applied Analysis of Variance
STP 533	Applied Multivariate Analysis
SWG 519	Research Methods in Social Work
SWG 718	Qualitative Research Methods
SWG 719	Quantitative Research Methods
WST 598	Qualitative Methods: Interviewing