

Refer to the following list of pre-approved electives while planning your coursework. Some courses are offered outside of SGSUP and therefore are subject to change. View the [Schedule of Classes](#) for the most current course offerings.

A maximum of 6.0 credits of 400-level elective coursework may be included on the plan of study.

Course Number	Course Title
AML 540	Statistical Modeling for Sustainability
AML 591	Modeling with Game Theory
AML 610	Topics in Applied Mathematics for the Life and Social Sciences
AML 612	Applied Mathematics for the Life and Social Sciences Modeling Seminar
ASB 568	Intrasite Research Strategies
ASM 424/591	Dynamic Modeling in Social and Ecological Systems
ASM 465	Quantification and Analysis for Anthropologists
CDE 591	Advanced Bayesian Analysis
CDE 591	Bayesian Analysis
CDE 591	Exploratory and Confirmatory Factor Analysis
CDE 591	Structural Equation Modeling with Longitudinal Data
COM 507	Qualitative Research Methods in Communication
COM 608	Multivariate Statistical Analysis of Data in Communication
COM 609	Advanced Qualitative Research Methods in Communication
CRD 502	Statistical and Data Analysis
CRD 620	Community Research Methods
CRJ 503	Research Methods
CRJ 504	Statistical Tools for Criminology and Criminal Justice
CRJ 511	Applied Data Analysis in Criminal Justice
CRJ 603	Advanced Research Design
CRJ 604	Advanced Statistical Analysis
CRJ 613	Qualitative Methods
ECN 525	Applied Regression Models
ECN 527	Categorical Data Analysis
EDP 502	Introduction to Data Analysis
EDP 503	Introduction to Qualitative Research
EDP 552	Multiple Regression and Correlation Methods
EDP 554	Analysis-of-Variance Methods
EDP 651	Methods and Practices of Qualitative Research
EDP 652	Multivariate Procedures for Data Analysis
EDP 654	Structural Equation Modeling in Educational Research

EXW 643	Correlation/Regression Multivariate
EXW 645	Advanced Applied Methods and Data Analysis
EXW 701	Advanced Research Methods II
FAS 505	Applied Regression Analysis
FAS 508	Structural Equation Analysis for the Social Sciences
FAS 512	Secondary Data Analysis
FAS 598	ANOVA and Advanced Regression Techniques
GCU 542	Geographical Analysis of Transportation
GCU 585	Geographic Research Design and Proposal Writing
GIS 521	Geographic Information Science Programming
GIS 561	Fundamentals of Spatial Optimization
GIS 562	Location Analysis and Modeling
NLM 530	Program Evaluation and Information Management
NLM 565	Grant Writing for Nonprofit Organizations
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
NUR 615	Qualitative Data Management Seminar
NUR 616	Community-Based Participatory Research
NUR 617	Foundational Concepts in Science and Statistics
PAF 501	Public Service Research I
PAF 502	Public Service Research II
PAF 541	Program Evaluation
PAF 573	Applied Econometrics
PAF 591	Policy Studio: Evaluation, Design, and Development
POS 601	Advanced Experimental Research
POS 603	Polimetrics I
POS 604	Polimetrics II
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
PSY 554	Item Response Theory
PSY 555	Experimental and Quasi-Experimental Designs for Research
PSY 562	Advanced Human Factors
PSY 576	Dynamical Systems in Psychology

PUP 571	Planning Methods I
PUP 579	Planning Methods II
PUP 642	Urban and Regional Economic Analysis
SOC 508	Structural Equation Analysis for the Social Sciences
SOC 509	Event History Analysis
SOC 512	Secondary Data Analysis
SOC 533	Demographic Methods
SOC 598	Advanced Regression Techniques
SOS 540	Statistical Modeling
SOS 591	Dynamic Modeling
SOS 591	Modeling with Game Theory
STP 530	Applied Regression Analysis
STP 531	Applied Analysis of Variance
STP 532	Applied Nonparametric Statistics
STP 533	Applied Multivariate Analysis
STP 535	Applied Sampling Methodology
STP 598	Causal Inference
STP 598	Bayesian Statistics
SWG 519	Research Methods in Social Work
SWG 719	Quantitative Research Methods
SWG 721	Statistics
TWC 414/514	Visualizing Data Information
WST 598	Qualitative Methods: Interviewing