

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.

<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
AML 540	Statistical Modeling for Sustainability	3
AML 541	Mathematical Concepts and Tools in Sustainability	3
AML 591	Modeling with Game Theory	3
AML 610	Topics in Applied Mathematics for the Life and Social Sciences	3
AML 612	Applied Mathematics for the Life and Social Sciences Modeling Seminar	3
ASB 568	Intrasite Research Strategies	3
ASM 424/591	Dynamic Modeling in Social and Ecological Systems	3
ASM 465	Quantification and Analysis for Anthropologists	3
ASM 520	Agent-Based Modeling	3
ASM 568	GIS and Spatial Technologies in Anthropological Research	3
CDE 591	Advanced Bayesian Analysis	3
CDE 591	Bayesian Analysis	3
CDE 591	Exploratory and Confirmatory Factor Analysis	3
CDE 591	Structural Equation Modeling with Longitudinal Data	3
CDE 598	ANOVA for Behavioral Scientists	3
CDE 598	Latent Growth and Mixture Models with Longitudinal Data	3
COM 608	Multivariate Statistical Analysis of Data in Communication	3
COM 609	Advanced Qualitative Research Methods in Communication	3
COM 692	Advanced Qualitative Data Analysis	3
CRD 502	Statistical and Data Analysis	3
CRD 620	Community Research Methods	3
CRJ 503	Research Methods	3
CRJ 504	Statistical Tools for Criminology and Criminal Justice	3
CRJ 511	Applied Data Analysis in Criminal Justice	3
CRJ 534	Program Evaluation in Criminal Justice	3
CRJ 603	Advanced Research Design	3
CRJ 604	Advanced Statistical Analysis	3
CRJ 605	Topics in Quantitative Methods	3
CRJ 613	Qualitative Methods	3
ECN 525	Applied Regression Models	3
ECN 527	Categorical Data Analysis	3

EDP 502	Introduction to Data Analysis	3
EDP 503	Introduction to Qualitative Research	3
EDP 552	Multiple Regression and Correlation Methods	3
EDP 554	Analysis-of-Variance Methods	3
EDP 651	Methods and Practices of Qualitative Research	3
EDP 652	Multivariate Procedures for Data Analysis	3
EDP 654	Structural Equation Modeling in Educational Research	3
EDP 691	Advanced Topics in Item Response Theory	3
EDP 691	Intro to Item Response Theory	3
EXW 643	Correlation/Regression Multivariate	3
EXW 645	Advanced Applied Methods and Data Analysis	3
EXW 701	Advanced Research Methods II	3
FAS 505	Applied Regression Analysis	3
FAS 507	Categorical Data Analysis	3
FAS 508	Structural Equation Analysis for the Social Sciences	3
FAS 509	Event History Analysis	3
FAS 512	Secondary Data Analysis	3
FAS 598	Advanced Regression Techniques	3
GCU 542	Geographical Analysis of Transportation	3
GCU 585	Geographic Research Design and Proposal Writing	3
GIS 501	GeoDesign in Practice	3
GIS 521	Geographic Information Science Programming	3
GIS 561	Optimization Fundamentals for Spatial Analysis	3
GIS 562	Location Analysis and Modeling	3
NLM 530	Program Evaluation and Information Management	3
NLM 565	Grant Writing for Nonprofit Organizations	3
NUR 608	Qualitative Research Design and Methods	3
NUR 609	Quantitative Research Design and Methods	3
NUR 612	Advanced Analysis of Variance: Design and Analysis of Experiment	3
NUR 615	Qualitative Data Management Seminar	3
NUR 616	Community-Based Participatory Research	3
NUR 617	Foundational Concepts in Science and Statistics	3
PAF 501	Public Service Research I	3
PAF 502	Public Service Research II	3
PAF 541	Program Evaluation	3
PAF 573	Applied Econometrics	3
PAF 591	Policy Studio: Evaluation, Design, and Development	3
POS 601	Advanced Experimental Research	3

POS 603	Polimetrics I	3
POS 604	Polimetrics II	3
POS 605	Polimetrics III	3
POS 606	Qualitative and Textual Analysis	3
PSY 532	Analysis of Multivariate Data	3
PSY 533	Structural Equation Modeling	3
PSY 534	Psychometric Methods	3
PSY 536	Statistical Methods in Prevention Research	3
PSY 537	Longitudinal Growth Modeling	3
PSY 538	Advanced Structural Equation Modeling	3
PSY 539	Multilevel Models for Psychological Research	3
PSY 540	Missing Data Analysis	3
PSY 554	Item Response Theory	3
PSY 555	Experimental and Quasi-Experimental Designs for Research	3
PSY 561	Methods in Applied Psychology	3
PSY 562	Advanced Human Factors	3
PSY 576	Dynamical Systems in Psychology	3
PUP 571	Planning Methods I	3
PUP 579	Planning Methods II	3
PUP 582	Location Analysis and Modeling	3
PUP 642	Urban and Regional Economic Analysis	3
SMC 541	Foundations of Simulation & Modeling	3
SOC 505	Applied Regression Analysis	3
SOC 507	Categorical Data Analysis	3
SOC 508	Structural Equation Analysis for the Social Sciences	3
SOC 509	Event History Analysis	3
SOC 512	Secondary Data Analysis	3
SOC 533	Demographic Methods	3
SOC 598	Advanced Regression Techniques	3
SOS 540	Statistical Modeling	3
SOS 541	Mathematical Concepts and Tools in Sustainability	3
SOS 542	Sustainability Indicators	3
SOS 591	Topics in Ecological Modeling	3
STP 530	Applied Regression Analysis	3
STP 531	Applied Analysis of Variance	3
STP 532	Applied Nonparametric Statistics	3
STP 533	Applied Multivariate Analysis	3
STP 535	Applied Sampling Methodology	3

STP 598	Causal Inference	3
STP 598	Bayesian Statistics	3
SWG 519	Research Methods in Social Work	3
SWG 718	Qualitative Research Methods	3
SWG 719	Quantitative Research Methods	3
SWG 721	Statistics	3
TWC 414/494/514/598	Visualizing Data Information	3
WST 598	Qualitative Methods: Interviewing	3