School of Geographical
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Arizona State University

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 591	Modeling with Game Theory
ASB 568	Intrasite Research Strategies
CDE 591	Advanced Bayesian Analysis
CDE 591	Exploratory and Confirmatory Factor Analysis
CDE 591	Structural Equation Modeling with Longitudinal Data
CPP 523	Foundations of Program Evaluation I: Multiple Regression
CPP 524	Foundations of Program Evaluation II: Research Design
CPP 525	Foundations of Program Evaluation III: Advanced Regression Tools
CPP 526	Foundations of Data Science I: Introduction to Data Programming in R
CPP 527	Foundations of Data Science II: Data Wrangling
CPP 528	Foundations of Data Science III: Project Management
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 598 / GRD 591	Seminar in Research Integrity
CRJ 604	Regression Models
CRJ 605	Topics in Quantitative Methods: Statistical Methods for Longitudinal Studies
CRJ 605	Topics in Quantitative Methods: Hierarchical Linear Modeling
DCI 691	Seminar: Introduction to Measurement Theory & Practice in Education
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
GCU 585	Geographic Research Design and Proposal Writing
GCU/PUP/SOS 598	Social Survey Methods

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GIS 521	Geographic Information Science Programming
GIS 561	Fundamentals of Spatial Optimization
GIS 562	Location Analysis and Modeling
GIS 598	Multivariate Statistics for Social Sciences
IGD 603	Methods for Research in Global Development
ISS 501	Advanced Integrated Social Research Methods
ISS 505	Multivariate Methodologies of Social Science
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 505	Public Policy Analysis
PAF 541	Program Evaluation
PAF 573	Applied Econometrics
PAF 609	Advanced Quantitative Methods Seminar
PAF 610	Advanced Qualitative Methods for Public Affairs Research
POS 603	Polimetrics I
POS 604	Polimetrics II
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 576	Dynamical Systems in Psychology
PUP 571	Planning Methods I
PUP 579	Planning Methods II
PUP 642	Urban and Regional Economic Analysis
SOS 540	Statistical Modeling
SOS 591	Dynamic Modeling of Social & Ecological Systems
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 598	Causal Inference
STP 598	Advanced Bayesian Statistical Learning
SWG 519	Research Methods in Social Work
SWG 719	Quantitative Research Methods
SWG 721	Statistics
TWC 414/514	Visualizing Data Information