

# SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH

The Concentration in Analysis and Research—an elective option within the undergraduate sociology major—is designed for students who do well and are interested in research methods and statistics. CAR prepares students for entry-level jobs in applied social research and/or for graduate study. Key features of the concentration include advanced statistics courses, training in social science computing, and research. By selecting appropriate electives and internships, students may focus their training on demography, survey research, marketing and communications, criminal justice, health care, education, social services, natural resources, organizations, or personnel and human resources.

## REQUIREMENTS

Students pursuing the Sociology: Concentration in Analysis and Research (CAR) option must complete:

- the Foundation (Core), Residence, and Quality of Work requirements of the general Sociology major
- at least 36 credits of coursework in the SOC subject, and
- the Concentration in Analysis and Research requirements detailed below.

## ADDITIONAL CAR REQUIREMENTS

Code	Title	Credits
<b>Additional Statistics</b>		
Complete two courses:		
SOC/C&E SOC 361 or ECON 410	Statistics for Sociologists II Introductory Econometrics	4
SOC 362 or STAT 312	Statistics for Sociologists III Introduction to Theory and Methods of Mathematical Statistics II	3
<b>Data Management</b>		
SOC/C&E SOC 365	Data Management for Social Science Research	3-4
<b>Distribution</b>		
Complete two Research Electives:		6
SOC 351	Introduction to Survey Methods for Social Research	
SOC 375	Introduction to Mathematical Sociology	
SOC 376	Mathematical Models of Social Systems	
SOC 535	Talk and Social Interaction	
SOC 575	Sociological Perspectives on the Life Course and Aging	
SOC/AMER IND/ C&E SOC 578	Poverty and Place	

SOC 633	Social Stratification
SOC 674	Demographic Techniques I
SOC/ C&E SOC 676	Applied Demography: Planning and Policy
MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH/ISYE/ OTM/STAT 632	Introduction to Stochastic Processes
POLI SCI 305	Elections and Voting Behavior
POLI SCI 515	Public Opinion
PSYCH 225	Research Methods
STAT 349	Introduction to Time Series
STAT 351	Introductory Nonparametric Statistics
STAT 411	An Introduction to Sample Survey Theory and Methods
STAT 421	Applied Categorical Data Analysis
STAT/BMI 642	Statistical Methods for Epidemiology
INFO SYS 371	Technology of Computer-Based Business Systems
MARKETNG 310	Marketing Research

### Research Practicum

SOC/C&E SOC 693	Practicum in Analysis and Research	3
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**Total Credits** **19-20**

## RESIDENCE AND QUALITY OF WORK

- A minimum 3.000 GPA on all CAR-specific courses is required at the time of graduation.

## FOUR-YEAR PLAN

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#### First Year

Fall	Credits Spring	Credits
Communication A	3 SOC/C&E SOC 210 or 211 (SOC 211 also satisfies Communication B)	3-4
Quantitative Reasoning A	3 SOC/C&E SOC 357	4
Foreign Language (if required)	4 Biological Science Breadth	3
Ethnic Studies (may be taken in the major)	3 Intermediate MATH, COMP SCI or STAT (for BS)	3
Physical Science Breadth	3	
<b>16</b>		<b>14</b>

#### Second Year

Fall	Credits Spring	Credits
SOC/C&E SOC 360 (satisfies Quantitative Reasoning B)	4 SOC/C&E SOC 475	3
INTER-LS 210	1 SOC Distribution (upper level)	4

Humanities Breadth	3	Natural Science Breadth	3
Science Breadth	3	Literature Breadth	3
Elective	4	Elective	2
<b>15</b>		<b>15</b>	

**Third Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Declare the major		SOC Distribution (upper level)	4
Humanities Breadth	6	SOC/C&E SOC 365	3-4
SOC Distribution (upper level)	4	CAR Research Elective	4
Additional statistics for CAR option	3	Electives	3
Electives	2		
<b>15</b>		<b>15</b>	

**Fourth Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
SOC Distribution (upper level)	3	SOC/C&E SOC 693	3
CAR option Research Elective	3	Electives	12
Electives	9		
<b>15</b>		<b>15</b>	

**Total Credits 120**