

Statistics Concentration Worksheet

The Statistics Concentration Requires two core courses: STAT 272 and STAT 316

Minimal Course Plan – List 4 courses

Term	Course No	Course Name
	Stat 272	Statistical Modeling
	Stat 316	Advanced Statistical Modeling

Students choose at least two of the following elective courses:

- STAT 270: Intermediate Statistics for Social Science Research
- STAT 282: Topics in Statistics (*rarely offered*)
- STAT 284: Biostatistics
- STAT 322: Statistical Theory (pre-requisite Math 262: Probability Theory)

- CS 125: Computer Science for Scientists and Mathematicians
- ECON 385*: Econometrics
- MATH 262: Probability Theory
- MSCS 264: Introduction to Data Science
- MSCS 341*: Algorithms for Decision Making
- PSYCH 230: Research Methods in Psychology
- PSCI 220: Analyzing Politics and Policies
- SOAN 371: Foundations of Social Science Research: Quantitative Methods

Experiential Learning Component (Optional)

Each concentrator is encouraged to participate in experientially based research or employment that takes statistical methods beyond the traditional classroom. This can occur on- or off-campus. Excellent opportunities for experiential learning in statistics include:

- STAT 294: Academic Internship
- MSCS 390: Mathematics Practicum
- MSCS 389: Research Methods (through the Center for Interdisciplinary Research (CIR)).

As a CIR fellow, students can work during the academic year with faculty on research from a variety of disciplines.

*ECON 385 and MSCS 341 may substitute for STAT 316.