

Course Schedule - Summer 2008

Statistics

100 **Statistics** credit: 3 hours.

First course in probability and statistics at a precalculus level; emphasizes basic concepts, including descriptive statistics, elementary probability, estimation, and hypothesis testing in both nonparametric and normal models. Same as MATH 161. Credit is not given for both STAT 100 and any one of the following: ECON 202, PSYC 235, or SOC 485. Prerequisite: MATH 012.

This course satisfies the General Education Criteria for a Quant Reasoning I course.

Students who have completed a year of Calculus should enroll in STAT 400 instead of STAT 100.

CRN	Type	Section	Time	Days	Location	Instructor
30451	lecture-discussion	E1	01:00 PM - 02:50 PM	MTR	room 2 Illini Hall	Yang, Y
30451: Quant Reasoning I course.Meets 09-Jun-08 - 31-Jul-08.						
30452	lecture-discussion	N	10:00 AM - 11:50 AM	TWR	room 241 Everitt Elec and Comp Engr Lab	Hirtz, N
30452: Quant Reasoning I course.Meets 09-Jun-08 - 31-Jul-08.						
30453	lecture-discussion	T1	03:00 PM - 04:50 PM	TWR	room 138 Henry Administration Bldg	Patterson, J
30453: Quant Reasoning I course.Meets 09-Jun-08 - 31-Jul-08.						

200 **Statistical Analysis** credit: 3 hours.

Principles in statistical design and analysis motivated by real case studies. Statistical computing is introduced and used for data analysis. Theory and techniques include survey sampling, hypothesis testing, contingency tables, Poisson models, regression analysis, and response surface analysis. The vital role of statistics in science is illustrated by case studies, and students learn principles related to study design, data collection, data presentation, and statistical computing, as well as technical writing and communication skills.

This course satisfies the General Education Criteria for a Quant Reasoning I course.

CRN	Type	Section	Time	Days	Location	Instructor
34303	lecture-discussion	N1	09:00 AM - 10:50 AM	MTR	room 441 Altgeld Hall	Recchia, A
34303: Quant Reasoning I course.Meets 09-Jun-08 - 31-Jul-08.						

390 **Individual Study** credit: 1 or 2 hours.

May be repeated to a maximum of 8 hours. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10189	independent study		ARRANGED			
10189: Instructor Approval Required						

391 **Honors Individual Study** credit: 1 or 2 hours.
May be repeated to a maximum of 8 hours. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10194	independent study		ARRANGED			
10194: Instructor Approval Required						

400 **Statistics and Probability I** credit: 4 hours.
Introduction to mathematical statistics that develops probability as needed; includes the calculus of probability, random variables, expectation, distribution functions, central limit theorem, point estimation, confidence intervals, and hypothesis testing. Offers a basic one-term introduction to statistics and also prepares students for STAT 410. Same as MATH 463. Prerequisite: MATH 241 or equivalent.

Students must register for one discussion and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
30458	discussion-recitation	AD1	10:00 AM - 10:50 AM	TR	room 243 Mechanical Engineering Bldg	Yang, J
30458: Meets 09-Jun-08 - 31-Jul-08.						
30460	lecture	AL1	09:00 AM - 10:50 AM	MWF	room 165 Noyes Laboratory	Monrad, D
30460: Meets 09-Jun-08 - 31-Jul-08.						

410 **Statistics and Probability II** credit: 3 or 4 hours.
Continuation of STAT 400. Includes moment-generating functions, transformations of random variables, normal sampling theory, sufficiency, best estimators, maximum likelihood estimators, confidence intervals, most powerful tests, unbiased tests, and chi-square tests. Same as MATH 464. 3 undergraduate hours. 4 graduate hours. Credit is not given for both STAT 410 and STAT 409. Prerequisite: STAT 400; or STAT 100 and MATH 461.

CRN	Type	Section	Time	Days	Location	Instructor
33498	lecture	G1G	01:00 PM - 02:50 PM	MWF	room 160 English Bldg	Stepanov, A

33498: Meets 09-Jun-08 - 31-Jul-08.						
33498: 4 hours						
33502	lecture	G1U	01:00 PM - 02:50 PM	MWF	room 160 English Bldg	Stepanov, A
33502: Meets 09-Jun-08 - 31-Jul-08.						
33502: 3 hours						

440 **Statistical Data Management** credit: 3 or 4 hours.

The critical elements of data storage, data cleaning, and data extractions that ultimately lead to data analysis are presented. Includes basic theory and methods of databases, auditing and querying databases, as well as data management and data preparation using standard large-scale statistical software. Students will gain competency in the skills required in storing, cleaning, and managing data, all of which are required prior to data analysis. 3 undergraduate hours. 4 graduate hours. Prerequisite: STAT 400 or STAT 409.

CRN	Type	Section	Time	Days	Location	Instructor
34304	lecture	N1G	10:00 AM - 11:50 AM	TWR	room G8A Foreign Languages Bldg	Muyot, M
34304: Meets 09-Jun-08 - 31-Jul-08.						
34304: 4 hours						
34713	lecture	N1U	10:00 AM - 11:50 AM	TWR		Muyot, M
34713: Meets 09-Jun-08 - 31-Jul-08.						
34713: 3 hours						

451 **Probability Theory** credit: 3 or 4 hours.
Same as MATH 461. See MATH 461.

CRN	Type	Section	Time	Days	Location	Instructor
30018	lecture-discussion	G3	09:00 AM - 09:50 AM	MTWR	Room 245 Altgeld Hall	Carpenter, B
30018: Meets 09-Jun-08 - 31-Jul-08.						
	lecture-discussion	G3	02:00 PM - 02:50 PM	M	room 245 Altgeld Hall	Carpenter, B
: Meets 09-Jun-08 - 31-Jul-08.						
: 3 hours						
30020	lecture-	G4	09:00 AM - 09:50	MTWR	Room 245 Altgeld	Carpenter, B

	discussion		AM		Hall	
30020: Meets 09-Jun-08 - 31-Jul-08.						
	lecture-discussion	G4	02:00 PM - 02:50 PM	M	room 245 Altgeld Hall	Carpenter, B
: Meets 09-Jun-08 - 31-Jul-08.						
: 4 hours						

590 **Reading Course** credit: 4 or 8 hours.

Directed reading on various topics. May be repeated with approval. Subject to approval by the student's advisor.

Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10198	independent study		ARRANGED			
10198: Instructor Approval Required						

593 **STAT Internship** credit: 0 to 8 hours.

Supervised, off-campus experience in a field in which statistical science plays an important role. Approved for both letter and S/U grading. Prerequisite: STAT 425 and consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
34736	conference	IN1	ARRANGED			He, X; Martinsek, A; Simpson, D; Chen, Y
34736: Meets 12-May-08 - 31-Jul-08.						
34364	conference	INT	ARRANGED			He, X; Martinsek, A; Simpson, D; Chen, Y
34364: Meets 12-May-08 - 31-Jul-08.						

599 **Thesis Research** credit: 0 to 16 hours.

May be repeated. Approved for S/U grading only. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10203	independent study		ARRANGED			
10203: Instructor Approval Required Meets 12-May-08 - 31-Jul-08.						

