

Course www homepage: <http://www.stat.psu.edu/~mga/401/course.info>

MEETING TIMES AND PLACES:

Section 1: MWF 8:00a-8:50a; M in 111 Boucke, WF in 101 Thomas.

Section 2: MWF 11:15a-12:05p; M in 111 Boucke, WF in 104 Thomas.

Section 3: MWF 2:30p-3:20p; MF in 104 Thomas, W in 214 Boucke.

Section 4: MWF 2:30p-3:20p; M in 064 Willard, WF in 105 Wartik.

TAUGHT BY:

Section 1: Dr. Steven Arnold, 313 Thomas Bldg, sfa@stat.psu.edu, 865-3557

OFFICE HOURS: TTh 9:00a-11:00a

Section 2: Dr. Michael Akritas, 414 Thomas Bldg, mga@stat.psu.edu, 865-3631

OFFICE HOURS: TTh 11:00a-12:00a, or by appointment

Section 3: Mr. Eli Walters, 409 Thomas Bldg, ewalters@stat.psu.edu, 865-6552

OFFICE HOURS: MW 12:00a-2:00p and R 10:00a-11:30a

Section 4: Mr. Jingyun Yang, 418 Thomas Bldg, mjyyang@stat.psu.edu, 865-3230

OFFICE HOURS: MW 1:00p-2:00p, or by appointment

ASSISTANTS:

Section 1: Mr. Kion Kim, 331B Thomas Bldg, kuk142@psu.edu, 865-8045

OFFICE HOURS: TTh 10:00a-11:00a, or by appointment.

Section 2: Mr. Kion Kim, 331B Thomas Bldg, kuk142@psu.edu, 865-8045

OFFICE HOURS: TTh 10:00a-11:00a, or by appointment.

Section 3: Ms. Min Kyung Kim, 333 Thomas Bldg, mzk136@psu.edu, 863-3374

OFFICE HOURS: T 1:00p-2:00p, Th 2:00p-3:00p, or by appointment.

Section 4: Ms. Min Kyung Kim, 333 Thomas Bldg, mzk136@psu.edu, 863-3374

OFFICE HOURS: T 1:00p-2:00p, Th 2:00p-3:00p, or by appointment.

TEXT:

No text is required for this course. Detailed instructional notes, on which the lectures will be based, will be made available.

COURSE OBJECTIVE: To familiarize students with the basic concepts and ideas of statistics and probability. To provide training in the use of statistical methods and graphics for the analysis and presentation of data encountered in the sciences and engineering.

SUMMARY OF COURSE REQUIREMENTS: Requirements for the course include in-class quizzes, homework, lab activities, and a final exam.

Quizzes	40%
Homework	20%
Lab Activities	20%
Final Exam	20%

QUIZZES: Four quizzes will be given on the following dates:

- Quiz 1: Friday, 29 September.
- Quiz 2: Friday, 20 October.
- Quiz 3: Friday, 10 November.

- Quiz 4: Friday, 1 December.

Quizzes will be given in class during the last 35 minutes of the class period. If, due to sickness, family emergency, team obligations etc, you need to miss a quiz, you should contact your instructor ahead of time in order to make alternate arrangements. There will be no make-up quizzes for those who miss a quiz without pre-notification, and a zero grade will assigned for that quiz. The lowest quiz score will be dropped. Solutions to quiz problems will be posted on the course homepage, typically by the time the quiz is returned to you.

COMPUTING ASSIGNMENTS, USING MINITAB: To use the personal computers on campus, you must obtain an Access Account. Students who are registered for one or more credits are automatically assigned an Access Account. To request activation of the account, students must present a Penn State photo ID to CAC staff at 12 Willard Building, 215 Computer Building, 230 Computer Building or any CAC lab in which a lab attendant is on duty. Normally the account is ready within 24 hours.

HOMEWORK: Weekly homework will be assigned in class, mostly on Wednesdays. These homework problems will then be due in class, typically the following Wednesday. Homework assignments can also be obtained through the course homepage. Solutions for each homework assignment will be posted on the homepage, typically by the time the homework is returned to you.

Two problems, selected at random, will be graded in detail, on a scale of 0-10 each. Every other problem that was worked out will get 5 points (whether done correctly or not). To obtain this credit, problems must be handed in in the same order as the order they are assigned.

There will be a 20% penalty for homework not handed in during class, provided that it does not get lost and provided it is turned in before noon on the following day. No credit will be given for homework handed in after that. All late homework should be turned in directly to your TA, or be put in his mailbox in 325 Thomas Bldg. If, due to sickness, family emergencies etc, you need to miss class when homework is due, please notify your instructor or TA to make alternate arrangements. The two lowest hw scores will be dropped.

Homework will usually be returned on Monday during class. It will be placed in an alphabetized stack at the front of the room for you to collect either before or after class time. Homework that is not picked up in class will be placed in the Meeting Room, 332 Thomas Building. After 2 weeks in Room 332, the homework will be discarded.

FINAL EXAM: The final exam will be comprehensive. Because of this it will be open book and open notes.

GRADES (tentative plan): 90-100 = A, 80-89.9 = B, 70-79.9 = C, 60-69.9 = D, 0-59.9 = F.

SICKNESS AND COMPASSIONATE WAIVERS: As described under Quizzes and Homework.

ACADEMIC INTEGRITY: The University policy on academic integrity, covering cheating, plagiarizing, and other acts of academic dishonesty, given in Section 49-20 of the Student Guide on Policies and Rules of the University, will be adhered to in this course.

NEW POLICY FOR CLASSROOM USE: There is a new policy governing classroom use. All food and drink (except bottled water) is disallowed from classrooms now. See <http://guru.psu.edu/policies/AD62.html> for more details.

Date	TOPIC	Assignments	
		GIVEN	DUE
W 6 Sept F 8 Sept	Chap 1: Introduction Chap 1: Introduction	HW1	
M 11 Sept W 13 Sept F 15 Sept	Chap 1: Lab Activity Chap 2: Probability Chap 2: Probability	HW2	HW1
M 18 Sept W 20 Sept F 22 Sept	Chap 2: Probability Chap 3: R.V.'s and their distributions Chap 3: R.V.'s and their distributions	HW3	HW2
M 25 Sept W 27 Sept F 29 Sept	Chap 3: Lab activity Chap 3: R.V.'s and their distributions Chap 3: R.V.'s and their distributions (Quiz 1)	HW4	HW3
M 2 Oct W 4 Oct F 6 Oct	Chap 3: Lab activity Chap 4: Multivariate Variables STUDY DAY	HW5	HW4
M 9 Oct W 11 Oct F 13 Oct	Chap 4,5: Lab activity Chap 4: Multivariate variables Chap 4: Multivariate variables	HW6	HW5
M 16 Oct W 18 Oct F 20 Oct	Chap 4,5: Lab activity Chap 4: Multivariate variables Chap 6: Point estimation (Quiz 2)	HW7	HW6
M 23 Oct W 25 Oct F 27 Oct	Chap 6: Lab activity Chap 6: Point estimation Chap 6: Point estimation	HW8	HW7
M 30 Oct W 1 Nov F 3 Nov	Chap 7: Lab activity Chap 7: Confidence and prediction intervals Chap 7: Confidence and prediction intervals	HW9	HW8
M 6 Nov W 8 Nov F 10 Nov	Chap 7,8: Lab activity Chap 8: Hypothesis testing Chap 8: Hypothesis testing (Quiz 3)	HW10	HW9
M 13 Nov W 15 Nov F 17 Nov	Chap 8: Lab activities Chap 9: Comparing two populations Chap 9: Comparing two populations	HW11	HW10
M 20 Nov T 21 Nov F 24 Nov	Chap 9: Lab activity Chap 10: Comparing $k(> 2)$ populations THANKSGIVING HOLIDAY		
M 27 Nov W 29 Nov F 1 Dec	Chap 10: Lab activity Chap 10: Comparing $k(> 2)$ populations Chap 10: Comparing $k(> 2)$ populations (Quiz 4)	HW12	HW11
M 4 Dec W 6 Dec F 8 Dec	Chap 11 Lab activities Chap 11: Two-factor designs Chap 11: Two-factor designs	HW13	HW12
M 11 Dec W 13 Dec F 15 Dec	Chap 11: Lab activity REVIEW REVIEW, Return of HW13		HW13