

## COURSEWORK - CRITICAL REASONING - PHI 169 - FALL 2018

**Investigative project (60%)** You should picture yourself as a private investigator who has been hired to solve a difficult case. You can pick any investigative question you are interested in. We will discuss possible topics in class. Once you've picked a question, you will formulate some hypotheses and collect evidence that should help you choose the correct hypothesis. The work for the project is divided in *six pass/fail assignments* (Stage 1 through Stage 6) along with *one presentation* (30% of your grade) and *one report* (30% of your grade).

You may work in groups (2-3 people) or alone. *Working in groups is recommended.* If you work in a group, please hand in only one written copy of the work. Each member of the group will receive the same grade for the work done by the group as a whole.

**Exams (30%)** For your project, you'll need some knowledge of probability. There will be two exams (15% + 15% of your grade) meant to assess your knowledge of probability .

**Class summaries (10%)** At the end of each class, two students will be randomly selected and tasked with writing a summary of the class. They will have the option of writing it together or individually. The summary should be emailed to me by the end of the next day and will be posted on the course webpage at [www.marcellodibello.com/phi169](http://www.marcellodibello.com/phi169). The summary should be clear and as precise as possible. You do not know when you'll be randomly selected and you may be picked more than once or twice. The highest grade of your class summaries (assuming you wrote more than one) will count toward 10% of your grade.

**Submission** A hard copy of each assignment must be submitted at the beginning of class the day it is due. No late submissions are accepted.

**Grading** To pass this class, you must pass all pass/fail assignments. Your final grade will be computed by weighing the other components according to their percentage.

	TOPIC	DUE	PERCENTAGE
Stage 1	Question	Sept 5 (at office hours)	Pass/Fail
Stage 2	Hypotheses	Sept 17	Pass/Fail
Stage 3	Evidence	Sept 24	Pass/Fail
Exam 1	Probability basics	Oct 22	15%
Exam 2	Bayes' theorem	Nov 12	15%
Stage 4	Prior probabilities	Nov 26	Pass/Fail
Stage 5	Evidence given hypothesis	Dec 3	Pass/Fail
Stage 6	Bayes' theorem applied	Dec 10	Pass/Fail
Presentation		Dec 10	30%
Report		Dec 18	30%
Summary		End of next day	10%