

Philosophy 109  
Introduction to Formal Reasoning  
Spring semester 2019

Instructor: David Sorensen  
Email: [dss170@scarletmail.rutgers.edu](mailto:dss170@scarletmail.rutgers.edu)  
Phone: 9082405941

**Introduction**

This course consists of three parts: Inductive reasoning, Probability theory, and topics in behavioral economics.

**Course website**

**Reading materials**

**Availability**

**Grading policy**

Weekly homework assignments (10, each worth 10 points) 20%  
Exam 1 (20%)  
Exam 2 (30%)  
Exam 3 (30%)

**Weekly schedule**

	<b>Topic</b>	<b>Reading</b>
<b>Week 1</b>	<b>Intro to logic</b>	<b>Ch. 1</b>
<b>Week 2</b>	<b>Inductive logic</b>	<b>Ch. 2</b>
<b>Week 3</b>	<b>How to calculate probabilities I</b>	<b>Ch.3 and Ch. 4</b>
<b>Week 4</b>	<b>How to calculate probabilities II</b>	<b>Ch. 5, 6, 7</b>
<b>Week 5</b>	<b>Bayes Theorem and Frequency trees</b>	<b>Online reading</b>
<b>Week 6</b>	<b>Probabilities and Utilities</b>	<b>Chs. 8, 9, 10</b>
<b>Week 7</b>	<b>Kinds of probability</b>	<b>Ch. 11 and 12</b>
<b>Week 8</b>	<b>Probability as a measure of belief</b>	<b>Ch. 13, 14, 15</b>
<b>Week 9</b>	<b>Probability as Frequency</b>	<b>Ch. 16-19</b>

<b>Week 10</b>	<b>Philosophy and induction</b>	<b>Chs. 20-22</b>
<b>Week 11</b>		
<b>Week 12</b>		
<b>Week 13</b>		
<b>Week 14</b>		