

**Advanced Probability**  
MA 587/687-2E, Spring 2012

List of homework exercises from the electronic book for Actuaries:

pages 15-16: problems 1.3, 1.11, and 1.8 (for extra credit)  
pages 26-29: problems 2.5 and 2.17  
pages 44-46: problems 4.5, 4.17, and 4.18 (for extra credit)  
pages 71-72: problems 7.9, 7.11, and 7.16  
pages 54-55: problems 5.1, 5.6, 5.12a  
pages 85-87: problems 9.3, 9.11  
pages 96-97: problems 10.3, 10.9  
pages 106-107: problems 11.5, 11.6, 11.8  
page 117: problem 13.11  
page 140: problem 16.6  
page 145: problem 17.2  
page 158-161: problems 18.6 and 18.19  
page 170: problem 19.9  
pages 177-191: problems 20.11, 20.17, 20.26, 20.34  
pages 203-205: problems 21.3, 21.5, 21.9  
page 217: problem 22.11 (also: find  $k$ )  
page 235: problems 23.11, 23.12, 23.13 (for extra credit)  
pages 255-258: problems 25.8, 25.13, 25.17  
page 265: problem 26.11  
page 272: problem 27.4 (note: waiting time to catch a fish is an exp.r.v.)  
page 277: problem 27.16(a)  
pages 299-301: problems 29.9, 29.12, 29.14  
pages 312-313: problems 30.11, 30.13, 30.16  
page 317: problem 31.5  
pages 325-326: problems 31.18, 31.21  
pages 332-334: problems 32.3, 32.11  
pages 341-343: problems 33.9, 33.10, 33.15  
pages 359-361: problems 35.6, 35.9, 35.15  
pages 371-374: problems 36.11, 36.16, 36.27  
pages 398-402: problem 38.11, 38.14, 38.31 (extra credit)  
pages 417-419: problems 39.4, 39.15  
pages 427-428: problems 40.12, 40.14, 40.16

List of homework exercises from the electronic books on Markov Chains:

587 students: 20, 21, 27, 36 on page 17 in the introductory book

687 students: 9, 10 from Section 11.2 (page 423) and 3, 4, 6, 9, 25, 26, 27, 28, 31(bonus) from Section 11.3 (pages 442–447) of the advanced book