Math 241, Complex Manifolds
Fall 2017
From Donaldson's book :

9/1: p. 41, #9,11
9/8: p. 56, #5,6
9/15: p. 81, #2,4 For Problem 2 you want to use Proposition 14, not Proposition 12.
9/22: Given a compact connected Riemann surface Y of genus h, what are the numbers g so that there is a compact connected Riemann surface X of genus g along with a nonconstant holomorphic map $f : X \to Y$ having no critical points?
9/29: For $g = 0$, $g = 1$ and $g = 2$, what can you say about $h^0(D)$ as a function of d?
10/6: p. 117, #1
10/13: p. 208, #1

From Huybrechts' book :

10/20: p. 75, #5,8
10/27: p. 96, #1, p. 103, #1
11/3: p. 40 #1, p. 111 #7
11/13: p. 123, #4,8
11/17: p. 131, #7,8
11/27: p. 172, #5, p. 181, #1
12/1: p. 191, #1,10