

**BME 178 Syllabus (tentative), Winter Quarter 2017****Tuesday/Thursday 3.20 – 4.55 pm, Baskin Engineering 372****Course instructor:** Camilla Forsberg, Professor, Biomolecular Engineering

<u>Class #</u>	<u>Date</u>	<u>Lecture</u>
1	Jan 10	<b>Intro: what are stem cells?</b>
2	Jan 12	<b>Hematopoietic stem cells I</b>
3	Jan 17	<b>Hematopoietic stem cells II</b>
4	Jan 19	<b>Regenerative medicine: Hematopoietic transplantation therapies</b>
5	Jan 24	<b>Experimental bone marrow transplantation</b>
6	Jan 26	<b>Early development, embryonic stem cells, and transgenic technologies</b>
7	Jan 31	<b>Stem cells and DNA repair</b>
8	Feb 2	<b><i>Midterm I</i></b>
9	Feb 7	<b>Epigenetics</b>
10	Feb 9	<b>Reprogramming and iPS cells</b>
11	Feb 14	<b>lncRNAs in reprogramming</b>
12	Feb 16	<b>Stem cells and cancer I</b>
13	Feb 21	<b>Stem cells and cancer II</b>
14	Feb 23	<b>Tissue-specific stem cells I</b>
15	Feb 28	<b><i>Midterm II</i></b>
16	Mar 2	<b>Stem cells to cure cancer</b>
17	Mar 7	<b>Ethical considerations in stem cell research</b>
18	Mar 9	<b><i>Student Debate</i></b>
19	Mar 14	<b>Gene therapy</b>
20	Mar 16	<b>Aging and degenerative disease</b>
-	Mar 20	<b><i>Final Exam, 4-7 pm (Monday)</i></b>