Calendar

This calendar represents my best guess, in advance, of the order and duration of topics covered in the course. Keep in mind that this is only a guess and that I will adjust timing to reflect what I see arising in the course as we proceed.

Tuesday	Thursday
Jan 17th **1** First Class: Overview of course; What is GR? Logistics	19th **2** What is geometry? Lagrangian Mechanics
24th **3** Geometry of special relativity (SR) SR effects Four vectors	26th **4** SR kinematics & dynamics Light
31st **5** Equivalence principle Gravitational time dilation Time dilation as geometry	Feb 2nd **6** Time dilation as geometry Particle motion in spacetime
7th **7** Description of curved spacetime I	9th **8** Description of curved spacetime II
14th **9** Conclude description of curved spacetime Begin Geodesics	16th **10** Geodesics Drop deadline is tomorrow!
21st **11** Geometry outside spherical star I	23rd **12** Midterm Exam
28th **13** Geometry outside spherical star II	Mar 1st **14** Geometry outside spherical star III
6th **15** Gravitational collapse and black holes I	8th **16** Gravitational collapse and black holes II

Tuesday		Thursday	
13th Astrophysical black holes	**17**	15th A little rotation	**18**
20th Rotating black holes I	**19**	22nd Rotating black holes II Grade change deadline tomorrow!	**20**
27th Spring Recess	**21**	29th Spring Recess	**22**
Apr 3rd Finish rotating black holes Gravitational waves I	**23**	5th Gravitational waves II	**24**
10th General relativity toolbox I	**25**	12th General relativity toolbox II	**26**
17th Einstein equations I	**27**	19th Einstein equations II	**28**
24th Sources of curvature	**29**	26th Last day of lecture Sources and Einstein equations Last day of lecture	**30**
May 1st RRR Week	**31**	3rd RRR Week. Final on next Monday, May 7th from 11:30-2:30pm. Exam group 2.	**32**