Things I'd like you to learn in Astr 688m

10. What are some current areas of high-energy astrophysics research?

9. What are the properties of neutron stars?

8. What are the properties of black holes?

7. How do we approach high-energy astrophysics observationally?

6. When are certain key approximations valid?

5. How do high-energy particles interact?

4. What are the crucial concepts of general relativity?

3. What extreme physics can we learn from high-energy astrophysics?

2. How do we model high-energy phenomena?

... and the #1 thing I hope you learn:

1. How do we simplify and analyze inherently complicated problems?