

**Spokane Falls Community College**

**Course Learning Outcomes**

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**Prefix and Course Number: ASTR&100**

**Course Title: Survey of Astronomy**

**Version Date: 09/24/2019**

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**Course Learning Outcomes**

Upon successful completion of the course, the student will be able to:

1. Describe the history of humanity's Earth-centered view of the universe, and explain how that progressed to a sun-centered view.
2. Identify the reasons for cyclic patterns in the sky such as annual motion, daily motion and moon phases.
3. Describe the solar nebula model and explain how the conservation laws of energy and angular momentum apply to this model of solar system formation.
4. Identify the process of energy generation within the sun and other stars.
5. Use the H-R diagram to differentiate between the evolutionary paths of low, medium and high mass stars.
6. Analyze the evidence for an expanding universe and relate that to the Big Bang theory.