

# Assessment: Course Four Column



## Courses (SCI) - Astronomy

### AST 101:General Astronomy

Course Outcomes	Assessment Measures	Results	Actions
<p><b>Heliocentric model</b> - Describe the heliocentric model of the universe:  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            Name the person most associated with the heliocentric model of our Solar System. It is said that he died on the day his book about this system was first published.</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            97% gave correct answer (09/14/2016)</p>	
<p><b>Kepler's Third Law</b> - Utilize Kepler's Third Law of planetary motion:  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            The asteroid Bopp-27 is approximately 8.63 Astronomical Units away from the Sun. Using Kepler's 3rd Law of planetary motion, determine its orbital period in years.</p> <p><b>Criterion:</b> &gt;50%correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            83% gave correct answer (09/14/2016)</p>	
<p><b>Ocean tides and eclipses</b> - Explain the cause of the ocean tides and eclipses and understand the potential eye damage that can occur when viewing a solar eclipse.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            Ocean tides occur on the surface of the Earth mostly due to the gravitational attraction of the Moon on ocean water. If this is true then why are tides almost 12 hours apart?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            56% gave correct answer (09/14/2016)</p>	

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<p><b>Electromagnetic spectrum</b> - List the major regions of the electromagnetic spectrum and be able to calculate relationships between the speed of light, wavelength and frequency.</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            What is the major electromagnetic radiation band whose frequency is higher in value than visible light?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            75% gave correct answer (09/14/2016)</p>	
<p><b>Astronomers</b> - Describe various instruments used by astronomers to probe the night sky</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            What type of telescope is characterized by using a large mirror with a hole in it?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            83% gave correct answer (09/14/2016)</p>	
<p><b>Planets</b> - Know the order of the planets from the Sun</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            What is the third planet from the Sun?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            100% gave correct answer (09/14/2016)</p>	
<p><b>US Moon Mission</b> - Know concepts about the US Moon Mission</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            Name the rocket used to carry the Apollo astronauts to the Moon.</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            92% gave the correct answer (09/14/2016)</p>	
<p><b>Mars the "Red Planet"</b> - Know what substance makes Mars the "Red Planet" and be able to explain the greenhouse effect on Venus</p> <p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam - FINAL:</b>            What exactly is the substance that makes Mars the "Red Planet"?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            97% gave the correct answer (09/14/2016)</p>	
<p><b>Jupiter's moon</b> - Be able to explain the heating mechanism in Jupiter's moon Io.</p>	<p><b>Exam - FINAL:</b>            Jupiter's moon Io has many volcanoes on its surface that spew</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes            92% gave correct answer (09/14/2016)</p>	

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<p><b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p>sulfur. What causes the intense internal heating seen on this moon?</p> <p><b>Criterion:</b> &gt;50% correct</p>		
<p><b>Saturn's Rings</b> - Be able to describe the composition of Saturn's Rings  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam</b> - FINAL  For the most part, what are Saturn's Rings made out of?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes  89% answered this correctly (09/14/2016)</p>	
<p><b>Comet and asteroid</b> - Explain the difference between a comet and an asteroid.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam</b> - FINAL:  What object in our Solar System would you consider to be described as a "dirty snowball"?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes  97% answered this correctly (09/14/2016)</p>	
<p><b>Meteor showers and historic falls</b> - Be able to discuss meteors and meteorites especially the concepts of meteor showers and historic falls.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam</b> - FINAL:  What meteorite is considered the largest iron meteorite found in the United States? Name where it was found.</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes  97% answered this correctly (09/14/2016)</p>	
<p><b>The Sun</b> - Be able to discuss the sections of the Sun and its method of energy production.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam</b> - FINAL:  In what section of the Sun was the element helium first discovered?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes  56% answered this correctly (09/14/2016)</p>	
<p><b>Solar System</b> - Be able to show the position of our Solar System in our Milky Way galaxy.  <b>Course Outcome Status:</b> Active  <b>Next Assessment:</b> 2020-2021  <b>Start Date:</b> 09/14/2016</p>	<p><b>Exam</b> - FINAL:  On what arm of the milky Way galaxy is our Solar System located?</p> <p><b>Criterion:</b> &gt;50% correct</p>	<p><b>Reporting Period:</b> 2015-2016  <b>Criterion Met:</b> Yes  N/A (09/14/2016)</p>	

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<p><b>Night sky observations</b> - Be able to write reports based on night sky observations:</p> <p><b>Course Outcome Status:</b> Active</p> <p><b>Next Assessment:</b> 2020-2021</p> <p><b>Start Date:</b> 09/14/2016</p>	<p><b>Assignment - Lab</b> - Lab Reports</p> <p><b>Criterion:</b> grades of all average &gt; 70%.</p>	<p><b>Reporting Period:</b> 2015-2016</p> <p><b>Criterion Met:</b> Yes</p> <p>Average Lab report grade: 78.5 (09/14/2016)</p>	