

To make a copy of this Template, use the File menu and select "Make a copy...", or "Download as..." > Microsoft Excel

EXAMPLE MAP					
Astronomy 101	Gregory Pijanowski				
Module/Submodule	Learning Outcome(s)	Assessment Approach	OER Provided (Add url)	License	Section of OER Used/Notes
This is how you structure your course thematically or chronologically, which might be represented in an LMS by modules or folders (eg, Topic A, Week 1).	List learning outcomes included in this module/submodule, identifying something students will know or be able to do after this unit of your course.	An assessment measures a student's knowledge of a task or an ability connected to a learning outcome. This may a quiz, an essay, a group project, etc.	For every unit, identify content either from sources like the Lumen Catalog or other OER sources. Copy the URL into the box below to support the learning outcome you are assessing for this unit.	Record the license of the content provided to the best of your knowledge. Make a note here if you are unsure.	In this column, make notes about what part of the content you are using. If you are using the entire resource at the URL supplied, you can leave this column blank.
Module 1 - Introduction to Astronomy	Develop understanding of the celestial sphere.	Discussion			
The Sky Above			<a href="http://cnx.org/contents/lnN76Opl@10.4:fC8jzq@3/The-Sky-Above">http://cnx.org/contents/lnN76Opl@10.4:fC8jzq@3/The-Sky-Above</a>	Creative Commons 4.0	
The Birth of Modern Astronomy			<a href="http://cnx.org/contents/lnN76Opl@10.4:DREvmGmR@3/The-Birth-of-Modern-Astronomy">http://cnx.org/contents/lnN76Opl@10.4:DREvmGmR@3/The-Birth-of-Modern-Astronomy</a>	Creative Commons 4.0	
Earth and Sky			<a href="http://cnx.org/contents/lnN76Opl@10.4:ITd1b7up@3/Earth-and-Sky">http://cnx.org/contents/lnN76Opl@10.4:ITd1b7up@3/Earth-and-Sky</a>	Creative Commons 4.0	
The Seasons			<a href="http://cnx.org/contents/lnN76Opl@10.4:H6TrvX3m@3/The-Seasons">http://cnx.org/contents/lnN76Opl@10.4:H6TrvX3m@3/The-Seasons</a>	Creative Commons 4.0	
Phases and Motions of the Moon			<a href="http://cnx.org/contents/lnN76Opl@10.4:T9HQmc8H@3/Phases-and-Motions-of-the-Moon">http://cnx.org/contents/lnN76Opl@10.4:T9HQmc8H@3/Phases-and-Motions-of-the-Moon</a>	Creative Commons 4.0	
Eclipses of the Sun and Moon			<a href="http://cnx.org/contents/lnN76Opl@10.4:5r1fa9Y@3/Eclipses-of-the-Sun-and-Moon">http://cnx.org/contents/lnN76Opl@10.4:5r1fa9Y@3/Eclipses-of-the-Sun-and-Moon</a>	Creative Commons 4.0	
Mini-Lecture - Stellarium				Standard YouTube License/Supplemental	Stellarium Tutorial Part I - Supplemental
			<a href="https://www.youtube.com/watch?v=hQILH0FafrI">https://www.youtube.com/watch?v=hQILH0FafrI</a>	See <a href="http://www.gnu.org/copyleft/gpl.html">http://www.gnu.org/copyleft/gpl.html</a>	Changed to Supplemental 4/6
Mini-Lecture - Celestial Coordinates			<a href="http://www.stellarium.org/">http://www.stellarium.org/</a>		Stellarium Download
			Polaris Azimuth Grid – Gregory Pijanowski Polaris Celestial Grid – Gregory Pijanowski		Added 4/6
Mini-Lecture - Ancient Astronomy			<a href="https://www.youtube.com/watch?v=hUAZLMkU0">https://www.youtube.com/watch?v=hUAZLMkU0</a>	Standard YouTube License/Supplemental	Stellarium Tutorial Part II
			Cairo Sunrise 4000 B.C. – Gregory Pijanowski		Changed to supplemental 4/6
			<a href="http://cnx.org/resources/897fd793d2c96e0ef2842a937273f2be41be5f6/OSC_Astro_02_02_Precision.jpg">http://cnx.org/resources/897fd793d2c96e0ef2842a937273f2be41be5f6/OSC_Astro_02_02_Precision.jpg</a>	Creative Commons 4.0	Precession image
			<a href="http://www2.astronomicalheritage.net/">http://www2.astronomicalheritage.net/</a>	Supplemental	UNESCO Astronomy Heritage Webportal
			<a href="http://www2.astronomicalheritage.net/index.php/about/astronomy-and-world-heritage/world-heritage-list">http://www2.astronomicalheritage.net/index.php/about/astronomy-and-world-heritage/world-heritage-list</a>	Supplemental	UNESCO Astronomy Heritage List
Discussion - Observing the Night Sky					Added 4/6
Module 2 - Properties of Motion and Light	Develop an understanding of Newton's Laws/EM Spectrum/Basics of Telescopes	Quiz/Written Assignemnt/Discussion			
The Laws of Planetary Motion			<a href="http://cnx.org/contents/lnN76Opl@10.4:R116B4Ht@3/The-Laws-of-Planetary-Motion">http://cnx.org/contents/lnN76Opl@10.4:R116B4Ht@3/The-Laws-of-Planetary-Motion</a>	Creative Commons 4.0	
Newton's Great Synthesis			<a href="http://cnx.org/contents/lnN76Opl@10.4:ccCTwYm@3/Newtons-Great-Synthesis">http://cnx.org/contents/lnN76Opl@10.4:ccCTwYm@3/Newtons-Great-Synthesis</a>	Creative Commons 4.0	
Newton's Universal Law of Gravitation			<a href="http://cnx.org/contents/lnN76Opl@10.4:tgHieGSS@3/Newtons-Universal-Law-of-Gravi">http://cnx.org/contents/lnN76Opl@10.4:tgHieGSS@3/Newtons-Universal-Law-of-Gravi</a>	Creative Commons 4.0	
The Behavior of Light			<a href="http://cnx.org/contents/lnN76Opl@10.4:uu68FTq@3/The-Behavior-of-Light">http://cnx.org/contents/lnN76Opl@10.4:uu68FTq@3/The-Behavior-of-Light</a>	Creative Commons 4.0	
The Electromagnetic Spectrum			<a href="http://cnx.org/contents/lnN76Opl@10.4:E87Bv498@4/The-Electromagnetic-Spectrum">http://cnx.org/contents/lnN76Opl@10.4:E87Bv498@4/The-Electromagnetic-Spectrum</a>	Creative Commons 4.0	
Spectroscopy in Astronomy			<a href="http://cnx.org/contents/lnN76Opl@10.4:H5KhDcK@3/Spectroscopy-in-Astronomy">http://cnx.org/contents/lnN76Opl@10.4:H5KhDcK@3/Spectroscopy-in-Astronomy</a>	Creative Commons 4.0	
The Doppler Effect			<a href="http://cnx.org/contents/lnN76Opl@10.4:nWRC8nG_@3/The-Doppler-Effect">http://cnx.org/contents/lnN76Opl@10.4:nWRC8nG_@3/The-Doppler-Effect</a>	Creative Commons 4.0	
Telescopes			<a href="http://cnx.org/contents/lnN76Opl@10.4:fRzaiOzt@3/Telescopes">http://cnx.org/contents/lnN76Opl@10.4:fRzaiOzt@3/Telescopes</a>	Creative Commons 4.0	
Telescopes Today			<a href="http://cnx.org/contents/lnN76Opl@10.4:y9Hv15mK@3/Telescopes-Today">http://cnx.org/contents/lnN76Opl@10.4:y9Hv15mK@3/Telescopes-Today</a>	Creative Commons 4.0	
Radio Telescopes			<a href="http://cnx.org/contents/lnN76Opl@10.4:md8YPKol@4/Radio-Telescopes">http://cnx.org/contents/lnN76Opl@10.4:md8YPKol@4/Radio-Telescopes</a>	Creative Commons 4.0	
Mini-Lecture - Freefall and Weightlessness			<a href="https://www.flickr.com/photos/usnavy/8754889771/in/photolist-dP3kbh-pY7Jz4-hWVlXc-dK3Mf1-shJzK-9nUawx-dqonbn-dNRfns-6LNKc1-yQ1uKW-buHC5N-bybuNS-eEaolU-eBViz-bfSzAe/">https://www.flickr.com/photos/usnavy/8754889771/in/photolist-dP3kbh-pY7Jz4-hWVlXc-dK3Mf1-shJzK-9nUawx-dqonbn-dNRfns-6LNKc1-yQ1uKW-buHC5N-bybuNS-eEaolU-eBViz-bfSzAe/</a>	Photo - US Navy/Public Domain	Freefall photo





























