

# Total Lunar Eclipse & Stargazing

Sunday, September 27, 2015 ~ 8:30 PM to 12:30 AM

Hiram Village Playing Field, behind the Hiram Historical Society

Stephens Memorial Observatory, in cooperation with the Village of Hiram, will host an eclipse viewing and stargazing night from 8:30 PM to 12:30 AM, September 27 - 28. The event is free and open to the public. Overcast or inclement weather conditions will cancel this open-air event. Limited parking is available across from the Hiram Municipal Building.

On the night of September 27, 2015 Earth's shadow will cross the face of its Moon and viewers across North America will be treated to a total lunar eclipse. In Northeastern Ohio we are in luck this time as the entire eclipse will be visible to us — a marvelous and relatively rare situation.



As the earliest phase of the eclipse begins, viewers will see the Full Moon gradually dim and its features becoming less distinct. When the partial eclipse begins, observers see the dark portion of Earth's shadow slowly move across and obscure the Full Moon's disk. As the shadow deepens, the Moon will begin to turn a copper-red color until, at totality, Luna will glow dimly in our star-sprinkled sky. As the eclipse ends, the process reverses until, in the wee hours of Monday, the Full Moon will again brightly shine.

If you cannot join us for the event, use the table below and watch from home — you don't need a telescope — all you need is to be able to see the Moon!

We'll all hope for clear skies!

## Eclipse Timing - Eastern Daylight Time

Partial umbral eclipse begins: 9:07 p.m. EDT on September 27  
Total eclipse begins: 10:11 p.m. EDT  
Greatest eclipse: 10:47 p.m. EDT  
Total eclipse ends: 11:23 p.m. EDT  
Partial eclipse ends: 12:27 a.m. EDT on September 28

*From EarthSky.org*