Night Sky Viewing at Widener University October 2025

Sunrise & Sunset Times (EDT)

	Sunrise	Sunset
Begin Month	6:58 am	6:43 pm
End Month	7:29 am	6:00 pm

Naked-Eye Planets in the Evening & Morning Sky this Month

Mercury (in Virgo-Libra): Mercury has a relatively poor apparition in the evening sky this October, hovering low above the western horizon and never quite emerging from the twilight glow. Mercury sets only about ½ hour after the Sun on the 1st, and just an hour after sunset when it reaches greatest eastern (evening) elongation on the 29th.

Mars (in Virgo-Libra): Mars resembles an orange star very low in the west during evening twilight; it sets roughly one hour after sunset all month, which is 7:45 pm EDT on the 1st, and 6:45 pm on the 31st. Mars is currently located on the far side of the Sun, over 220 million miles away, and in just 3 months it will pass behind the Sun (conjunction). Mars will reappear at dawn in late winter 2026.

Saturn (in Aquarius): Saturn was at its finest back on September 20th, when it was in opposition with the Sun, but it remains in favorable position for viewing through October. Saturn resembles a bright, creamcolored star located in Aquarius near the border with Pisces; it ascends in the southeast at dusk and remains viewable until the wee hours of the morning. Saturn stands due south, above the whitish star Fomalhaut, at around 11 pm EDT in mid-October; it sets in the west at 6 am as October begins and just before 4 am at month's end. A telescope reveals Saturn's ring system (still oriented nearly edge-on, but beginning to tilt more toward Earth), its largest moon Titan, and, as a bonus, the faint, bluish-green world Neptune just over two degrees to Saturn's east (left).

Venus (in Leo-Virgo): Venus beams with a yellowish-white brilliance in the east-northeast during the pre-dawn hours. It rises a few minutes before 5 am in early October, and at 6 am, which is only 1½ hours before sunrise, on the 31st. In the closing days of 2025, Venus will vanish into the morning twilight and slowly reappear in the evening sky during early 2026.

Jupiter (in Gemini): Jupiter mimics a majestic golden star within the bright constellation Gemini, which is up in the east-northeast during the late night hours. On October 1st, Jupiter peeks above the horizon shortly after 12:30 am EDT, and around 10:45 pm on Halloween Night. Jupiter far outshines the nearby stars, including Gemini's Pollux and Castor, which hang above it. At dawn, Jupiter stands high in the east well above the even more brilliant Venus. Jupiter's best showing is still 3 months away, when it reaches opposition with the Sun on January 10th.

Orionid Meteor Shower: Peaks in wee hours of October 21st. Its source: minute particles from Halley's Comet. Happily, the Moon's new phase on that date will guarantee a dark sky for viewing the fainter meteors.

Lunar Phases









29th

6th "Harvest Moon

13th

First Quarter 21st

Constellations & Bright Stars Visible Around 9 pm EDT in October

Lyra- just W of overhead Bright blue-white star Vega

Aquila- moderately high in SW Bright white star Altair

Cygnus - nearly overhead Bright star Deneb *Vega, Altair, & Deneb form the Summer Triangle

Sagittarius – low in SW, setting

"Tea Pot" asterism

Pisces Austrinus - low in SE, getting higher Bright white star Fomalhaut

Cetus – very low in ESE, rising Bright orange stars *Diphda*, *Menkar*

Pegasus (Great Square) - high in ESE Bright stars Scheat, Markab, Algenib

Andromeda – high in E, to left (E) of Pegasus Bright stars Alpheratz (NE corner of Great Square), Mirach, Almach

Aquarius - midway up in S Planet Saturn

Pisces – getting higher in E

Aries – low in ENE, rising Bright stars Hamal, Sheratan

Cassiopeia - "W" high in NNE Bright stars Shedar, Caph, Ruchbah

Perseus – rising in NE, to lower right of Cassiopeia Bright stars Mirfak and Algol

Auriga -low in NNE, rising Bright star Capella

For more information on the night sky, visit the Widener Observatory Stargazing website at www.widener.edu/stargazing/. A set of free sky maps can be obtained at www.skymaps.com/.