

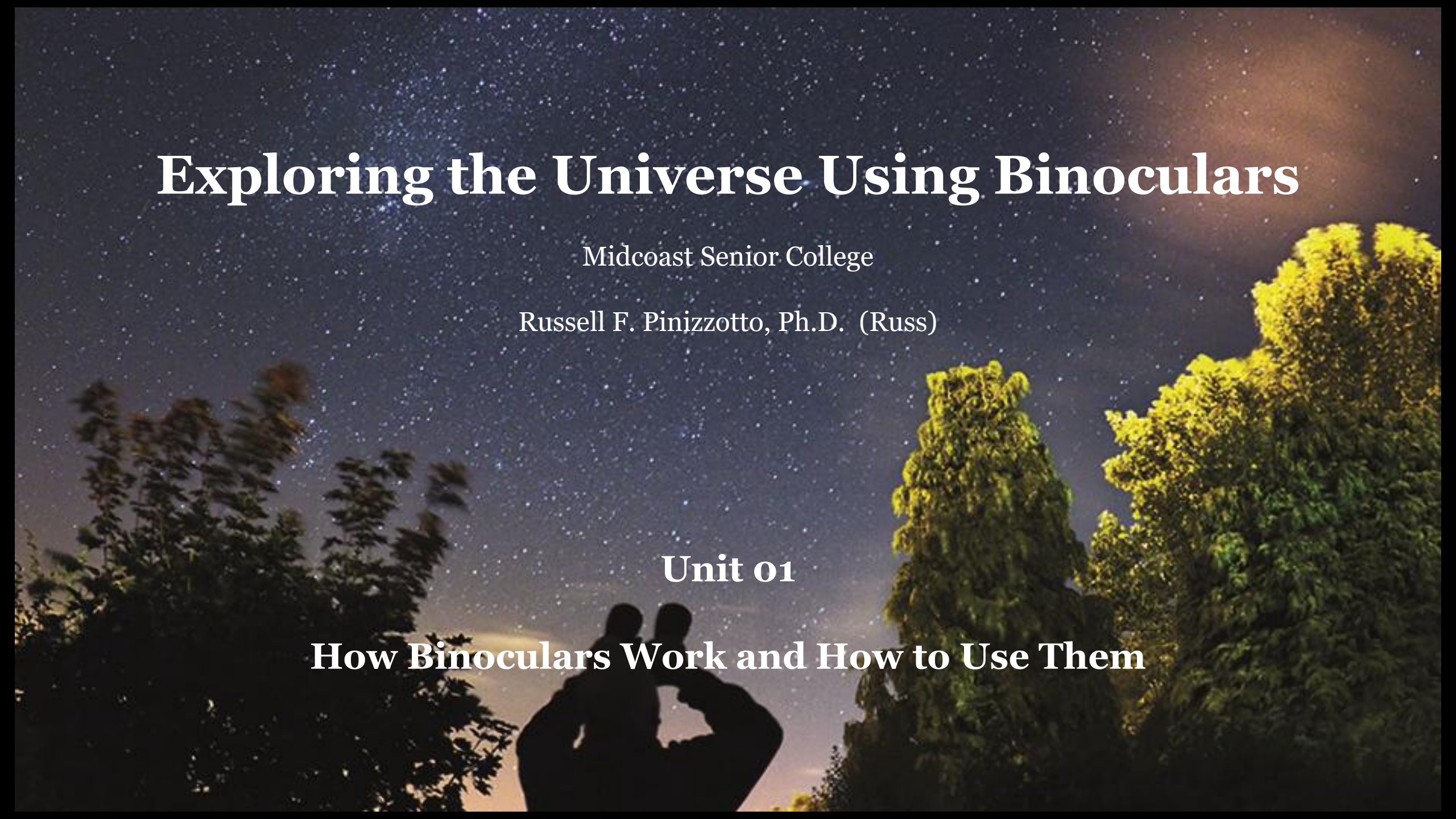
Exploring the Universe Using Binoculars

Midcoast Senior College

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Unit 01

How Binoculars Work and How to Use Them





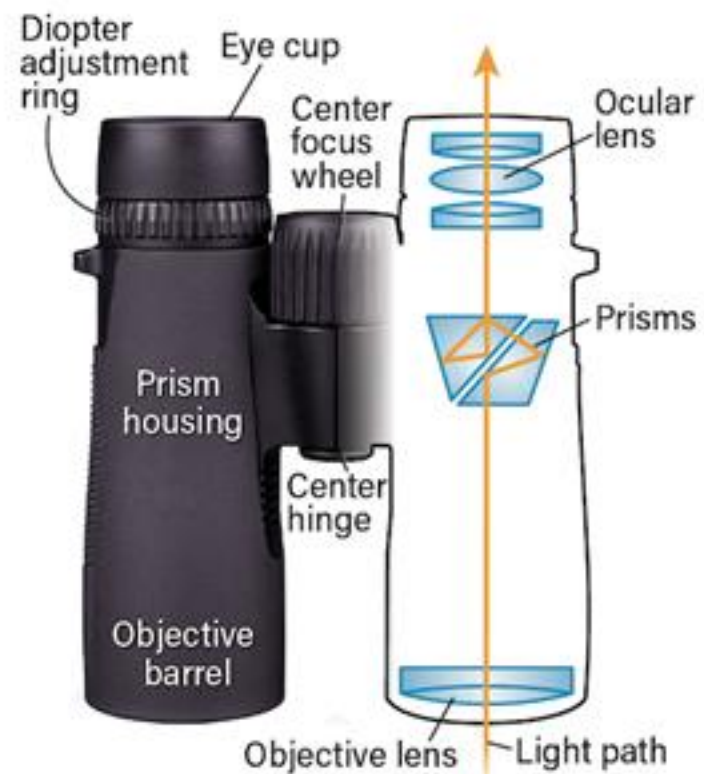


Definition of Binoculars Allowed for Observations

Observing devices with two optical tubes and two eyepieces, where you cannot change the eyepieces, are binoculars. Binoculars may be used in any Observing Program requiring telescopes or binoculars. Most binoculars do not have sufficient magnification to replace telescopes.

The Astronomical League defines a binocular telescope as an observing device with two optical tubes and two eyepieces, where the eyepieces can be replaced with eyepieces of different focal lengths. “Bino-Viewers” have a single optical tube, but two eyepieces. “Bino-Viewers” and Binocular Telescopes may be used in any Observing Programs that are telescope-based. They may not be used in binocular programs.

ROOF PRISM



PORRO PRISM



How to use your binoculars

1. Adjust the eyecups
2. Adjust the distance between the barrels
3. Focus the “non-diopter” side
4. Focus the “diopter” side
5. Check the focus of both sides

Holding binoculars steady

1. Use two hands!
2. Use your thumbs and little fingers
3. Fold your arms in
4. Rest against a tree or a wall
5. Use a tripod or a monopod
6. Use a parallelogram mount
7. Use a binocular mount







<https://petersonengineering.com/binocular-mount/>



Let's use our binoculars!