



Explorer™ EW Seminar

Do exoplanet observations and learn photometry. In this seminar, you will learn how to observe and measure exoplanets, drill down into astro databases, reduce data to submit observations to the JPL/NASA Exoplanet Watch program, do your own observation, analyze and present your results. Boyce-Astro will lead you through your project and provide the telescope time for the seminar and for your own exoplanet observations projects. You will be prepared for exoplanet discovery and variable star photometry.



Prerequisites: IntroSTARS™ is our self-paced online introductory course in stellar astrophysics. It takes 5 to 10 hours to complete depending on your current experience and knowledge. Students must complete IntroSTARS™ and its final Quiz before taking this course. **Sign up on the Wait List below and then go to <http://boyce-astro.org/introstars-your-step-1/> to sign up to do IntroSTARS on your own schedule before the Orientation class.**

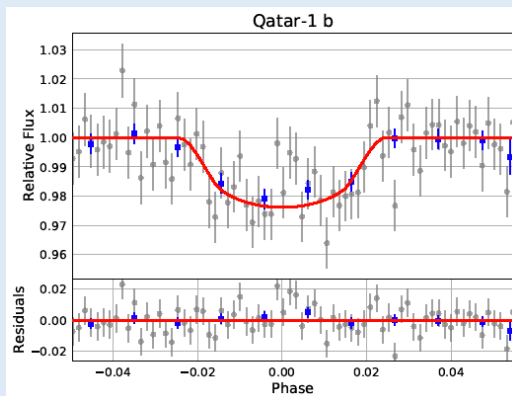
BOYCE-ASTRO ONLINE SEMINARS

FALL 2026

EXPLORATION™ for the EXOPLANET WATCH PROGRAM

MODULE	TOPICS	CONTENT / ASSIGNMENT FOR NEXT CLASS	DATE
0	Orientation	Complete IntroSTARSTM and IntroSTARSTM Quiz before Module 1 (not required for students who have completed this before)	14-Oct
1	Overview and Beginner Tutorial	Videos about photometry and variable stars - start self-paced photometry Get Slack, Google account, Classroom, Complete EXOTIC Beginner Tutorial	21-Oct
2	Photometry Basics, AAVSO, and Processing Real Data	Reduce +submit unreported an exoplanet observation to AAVSO/NASA Basic photometry tutorials - Exam due for Module 7	28-Oct
3	Understanding your Results and Navigating Databases	Choose an Exoplanet target using Swarthmore and our high priority list	4-Nov
4	Planning your Observation	Schedule an Exoplanet Observation in NextAstro on BARON Observatory Complete the exoplanet parameters for your observed exoplanet	11-Nov
5	How to Run a Robotic Telescope Using NINA	How to do an observation: Build an Exoplanet Sequence using NINA	18-Nov
6	Current Research in the Field of Exoplanetary Science	Exoplanet science and data bases; state of the exploration Complete your target reduction and submit to AAVSO/NASA	2-Dec
7	Launch a Mission to an Alien World	Prepare your presentation on your selected exoplanet and star Pass photometry Exam	9-Dec
8	A new life awaits you in the Off-world colonies!	Present your research - option to post it online as a poster or video	16-Dec

ALL CLASSES ARE HELD ON WEDNESDAY NIGHT AT 7:00 TO 8:00 PM PACIFIC TIME ON ZOOM



There is \$49 fee due before Module 1. This includes 6 hours of telescope time after successful course completion. Class size is limited to 12. Preference will be given to graduates of other Boyce-Astro seminars followed by those having the highest score on the IntroSTARS™ final Quiz.

To be invited to the Zoom Orientations, please

Get on our Wait List -- [Click Here](#)

ORIENTATION is on October 14

at 7:00 PM Pacific Time on Zoom