

Teaching Astronomy Through Fun Hands-on Activities Inspired by the Latest Discoveries

CERTIFICATE PROGRAM

Program Overview:

Looking for hands-on activities to teach Astronomy in your classroom? Join us and experience new inquiry-based activities that are designed by professional astronomers and inspired by the latest discoveries.

The goal of this blended certificate learning program with a focus on Astronomy is to support educators to further develop scientific thinking in students in grades 9-12. This module will introduce new inquiry-based activities that promote critical thinking and teach Astronomy as professional scientists practice it. Teachers will have the opportunity to experience these hands-on activities as the learner and discuss how to apply them in their classroom. The module includes four activities on extrasolar planets, cosmology, black holes, and gravitational waves, and it is aligned with the Earth and Space component of the Curriculum of the Ontario Ministry of Education and current teaching pedagogies. Ultimately this program will assist educators to inspire new generations of students to study science, by introducing them to the latest and most exciting discoveries in Astronomy enabled by innovative technologies and pedagogy.

This certificate program is co-sponsored by the York U Faculty of Science, the Department of Physics & Astronomy of York U, and the Astronomy Team teaching the workshop.

Program Details:

- ❖ Three day hands-on experiential workshop for educators
- ❖ Led by astronomy professors and professional astronomers
- ❖ Includes Classroom Resource Kit for teachers (\$30 value)
- ❖ Optional visit to York University Observatory and Solar Telescope observing
- ❖ Post-program Community of Practice facilitated discussion group
- ❖ Certificate of Completion provided at conclusion of the program

Instructors: Paola Rodriguez Hidalgo, Department of Physics and Astronomy, Faculty of Science, York U
Matt Russo, Canadian Institute for Theoretical Astrophysics, University of Toronto
Brian Cherinka, Department of Physics and Astronomy, Johns Hopkins University
Heather Fong, Canadian Institute for Theoretical Astrophysics, University of Toronto
Michael Williams, Department of Astronomy, University of Toronto

Dates/Times: July 12 - 14, 2016, (8:30am to 4:00pm)

Location: York University
4700 Keele St.
Toronto, ON. M3J 1P3

Course Fee: \$235.00 + \$30.55HST = **\$265.55**

Cancellation Policy: Withdrawals requests are refunded subject to \$50 non-refundable amount. No withdrawals or refunds on or after the course start date.

Register at: <https://pd.edu.yorku.ca/#/reg/course/8933>

For more information about Professional Learning opportunities:

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