

Essential Websites for College Astronomy 101 Instructors

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Free Online Astronomy Textbooks:

Fraknoi, Morrison, & Wolff: <https://openstax.org/details/books/astronomy-2e>

Impey: <http://www.teachastronomy.com> (also includes many videos)

Free Online Laboratory Exercises (A Topical Index): <http://bit.ly/astronomylabs>

Free Online Astronomy Apps (Listing): <https://foothill.edu/astronomy/astrosims.html>

Free Online Short Videos Collections:

List from many sources, organized by topic (starts on p.2): <http://bit.ly/shortastronomyvideos>

Crash Course: <https://www.youtube.com/playlist?list=PL8dPuuaLjXtPAJr1ysd5yGIyiSFuh0mIL>

Free Open-source Planetarium Software for Computers: <https://stellarium.org/>

Center for Astronomy Education (excellent resources): <https://www.as.arizona.edu/cae/>

Join their AstroLrner Google Group/List-serve: <https://www.as.arizona.edu/cae/community/>

Curated Content for Moving Astronomy Courses Online:

https://docs.google.com/document/d/1UPZVYyq2U7GTC5I7R1TI_rsRDwu4FXt9aukGY_XIeq60Q/edit

Amer. Astron. Soc. Education Newsletter: <https://lists.aas.org/AASeducation/subscribe/>

Guides for New Instructors and TA's:

O'Connell, R. "Facts of Life for New Teachers": <http://dx.doi.org/10.3847/AER2007010>

Bruning, D. "Teaching your First Astronomy Course":

https://www.oercommons.org/courseware/lesson/85674?_hub_id=27

U of Rochester TA Training: <https://www.pas.rochester.edu/graduate/ta-training/notes.html>

U of Washington: Tips for New TAs: <https://sites.google.com/a/uw.edu/introductory-astronomy-clearinghouse/teaching-resources/tips-for-new-tas>

Rica French's Extensive List of Teaching and Learning Tools:

<https://www.miracosta.edu/home/rfrench/facultyshare/other.html>

PhysPort Catalog of Concept Inventories (astronomy follows physics):

<https://www.physport.org/assessments/>

University of Nebraska Teaching Materials: <https://astro.unl.edu/>

Exemplary Course Syllabus (Ana Larson): <https://sites.uw.edu/anamunn/index-for-astronomy-101/a-comprehensive-syllabus/>

World-Wide Telescope Virtual Observatory: <http://worldwidetelescope.org/webclient/>

NASA Viewspace (videos and interactives): <https://viewspace.org/>

Science Fiction with Good Astronomy (organized by astro topic): <http://bit.ly/astronomyscifi>

This Day in Astronomical History (158 events): <http://bit.ly/astrodates>

Responding to Claims of Astronomical Pseudo-science: <http://bit.ly/astropseudoscience>

Full List of Guides to Educational Resources by A. Fraknoi: <http://bit.ly/fraknoiguides>

Astronomy Education Review (subject index to the entire run of the journal):

<https://aas.org/teach/subject-index-papers-astronomy-education-review-2001-2013>

MERLOT database of instructional tools: <https://www.merlot.org>