

Please post in your department!



## Attention teachers of physics, chemistry, physical science, & math!

For summer 2020, ASU offers a program of courses  
for your professional development. 3-D learning!

These are ideal courses to meet re-certification requirements, qualify to teach Dual Enrollment/Adjunct two-year college (TYC), and become highly qualified (ESSA) in physics or chemistry. They can count towards the ASU interdisciplinary *Master of Natural Science* degree (MNS) in physics, & graduate degrees in education. TYC, CTE, and pre-service teachers find these courses useful, too.

\* Apply after January 2020 for a partial tuition scholarship:

<https://physics.asu.edu/content/partial-tuition-scholarship-mnsmodeling-instruction-courses>

\* or reserve a seat after Jan. for Continuing Ed (\$400; need not apply to ASU. \$200 if out-of-pocket).

<https://physics.asu.edu/content/modeling-instruction-application-reserve-seat-ceu>

Modeling Instruction is designated as an *Exemplary K-12 science program & Promising Technology program* by the U.S. Department of Education. It is rated an *Accomplished STEM program* by Change the Equation. It won the "Excellence in Physics Education" award of the American Physical Society.

### Modeling Workshops: (3 credits)

June 8-26: (on Tempe campus. MTWTh 8am-3:30pm. 8am - noon on Fridays)

**PHS 530/PHY 480:** Methods of Teaching Physics I: mechanics (Jeff Steinert, instructor. PS-H356)

**PHS 531/PHY 494:** Modeling Workshop in Electricity & Magnetism (Holly McTernan, instr. H357)

**CHM 594/CHM 480:** Modeling Instruction in Chemistry I / Methods of Teaching Chemistry I  
(Mitch Sweet, instructor. PS-H366)

June 29-July 10: **CHM 594:** Modeling Instruction in Chemistry II (2 cr. M-F 8-3:30. No class July 3.)

**Other courses: June 29 – July 30** (no classes on Friday, July 3):

**PHS 556:** Astrophysics (1 – 3:30pm MTWR. Carl Covatto, instructor. PS-H355)

**PHS 540/CHM 540:** Integr Physics & Chem (4-6:30pm MTWR. Bob Culbertson, instr. PS-H356)

**PHS 598:** Leadership Workshop (4 Fridays at 1:10. June 12 & 19, July 17 & 24. Jim Archambault. 1 cr)

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Visit <http://physics.asu.edu>, hover on "Admission", scroll down to MNS Admission or Modeling Instruction Program. For more information, visit <http://modeling.asu.edu> and click on *ASU Summer Graduate Program for Teachers of Physical Sciences*. For help with tuition scholarships, CEUs, or family and dorm housing, e-mail [Jane.Jackson@asu.edu](mailto:Jane.Jackson@asu.edu), 480-314-1522. If you want grad credit, apply to ASU as a nondegree summer grad student (\$70 appl fee) at least 2 weeks before your course begins - - no transcripts needed. Register for your course after May 18, but at least 1 week before course begins.