

Please post in your department!



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

For summer 2019, ASU offers a program of courses  
for your professional development.

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 for a partial tuition scholarship (apply after Feb. 7, 2019):

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

\* Reserve a seat for Continuing Education. (\$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 3-20: PHS 530/PHY 480: mechanics (Jeff Hengesbach, instr. Estrella Mtn CC. MTWR 8-4:30pm)

June 10-28: (on Tempe campus. MTWTh 8am-3:30pm. 8am - noon on Fridays)

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

**PHS 594/PHY 494:** Modeling Workshop in CASTLE Electricity (Agatha Andersen, instructor)

**CHM 594/CHM 480:** Modeling Instruction in Chemistry I / Methods of Teaching Chemistry I  
(Mitch Sweet, instructor. Held probably at Scottsdale Comm. College in Mitch's classroom)

July 8-18: CHM 594: Modeling Instruction in Chemistry II (2 credits. **M-F 8-3:30**)

### July 1 – Aug 1 courses:

**PHS 560/CHM 560:** Matter and Light (1:00-3:30pm MTWR. Robert Culbertson, instructor)

**PHS 550:** Physics and Astronomy (4 – 6:30pm MTWR. Carl Covatto, instructor)

**PHS 598:** Leadership Workshop (some Friday afternoons, June 14-July. Jim Archambault, instr. 1 cr)

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Visit <http://physics.asu.edu>, hover on "Admission", scroll down to MNS Admission or Modeling Instruction. 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. Apply to ASU as a nondegree graduate student for summer (\$70 fee) at least 2 weeks before your course begins -- no transcripts needed.

