

Please post in your department!



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

For summer 2018, 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. CTE, TYC, and pre-service teachers find these courses useful, too.

* Tuition scholarships: <https://graduate.asu.edu/faculty-graduate-credit-options> (MCCCD DE faculty); <https://physics.asu.edu/content/partial-tuition-scholarship-mnsmodeling-instruction-courses> after Feb.7.

* Limited spaces: continuing education units (CEUs) (\$400; need not apply to ASU).

<https://physics.asu.edu/content/modeling-instruction-application-reserve-seat-ceu> (Reserve after Feb.7.)

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. MTWTh 8am-3:30pm. 8am - noon on Fridays)

June 11-29:

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

PHS 594/PHY 494: Modeling Workshop in Mechanical Waves & Sound (Michael Crofton, instructor)

CHM 594/CHM 480: Modeling Instruction in Chemistry I / Methods of Teaching Chemistry I
(Mitch Sweet, instructor. Held at Tempe Preparatory Academy in Mitch's classroom)

June 5-23 or July 9-26: **PHS 530/PHY 480:** Methods of Tch Physics I: mechanics (at Estrella Mountain CC in Avondale. Jeff Hengesbach, instructor. Interested? Reply to jane.jackson@asu.edu).

July 5-17: **CHM 594/PHS 594:** Thermodynamics Modeling Workshop (Levi Torrison, PhD. 2 cr)

June 26-July 28 courses:

PHS 581/CHM 581: Structure of Matter (1:00-3:30pm MTWR. Robert Culbertson, instructor)

PHS 542: Integrated Math & Physics (4:00 – 6:30pm MTWR. Bob Rowley, instructor)

PHS 598: Leadership Workshop (Friday afternoons, June 15-July. J Archambault, Instr. 1 cr)

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 individual housing, e-mail Jane.Jackson@asu.edu, 480-965-8438 or 480-314-1522. By May 13, apply online to ASU as a nondegree graduate student for summer (& pay \$70 fee) -- no transcripts needed.



ARIZONA STATE UNIVERSITY