Please post in your department!



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

For summer 2024, ASU offers research-

## informed 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), or become highly qualified (ESSA) in physics or chemistry. They can count toward the ASU interdisciplinary *Master of Natural Science* degree (MNS) in physics, & graduate degrees in education. **Pre-service**, TYC, and CTE teachers find these courses useful, too. (Oct. 8, 2023)

\* After Jan. 2024, reserve a seat for non-credit (clock hours) at <u>http://physics.asu.edu/node/2349</u>. **FREE!** You needn't apply to ASU. **Free** course materials for all AZ participants.

\* Arizona teachers who seek to qualify to teach dual enrollment: Apply NOW for a FULL-TUITION scholarship from the AZ Teachers Academy at ASU! Reply to jane.jackson@asu.edu for details.

\* AZ teachers who want to prepare to add physics or chemistry certification: apply now for \$2000 scholarship, at https://www.azed.gov/titlei/pd-pilot-program/.

\* After Jan. 2024, apply for our partial tuition scholarship at https://physics.asu.edu/node/2350

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<u>Why</u>: "Lifelong professional development is as essential for science teachers as it is for doctors. Typically, it takes at least 10 years of deliberate practice to reach a high level of expertise in any profession...
Teachers need access to lifelong professional development like that provided in Modeling Workshops."
—ASU physics professor David Hestenes, co-founder of Modeling Instruction.

## Modeling Workshops: (Each is 3 credits.)

June 3 to 21 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 594/PHY 494: Modeling Workshop in Mechanical Waves & Sound (PS-H355) CHM 594/CHM 480: Modeling Instruction in Chemistry I (Mitch Sweet. PS-H366. CHM 594: Modeling Instruction in Chemistry II (Levi Torrison & Phil Root. PS-H357)

Courses from June 24 to July 25: (Each is 3 credits. No class on July 4.) PHS 570: Spacetime Physics (1pm to 3:30pm MTWTh. Carl Covatto, instructor. PS-H355) PHS 581/CHM 581: Structure of Matter (4 pm to 6:30pm MTWTh. Bob Culbertson, PS-H356)

Info at <u>http://physics.asu.edu</u>; hover over "Degree Programs". For help with tuition scholarships, etc., contact Jane.Jackson@asu.edu, 480-314-1522. For graduate credit, apply to ASU at least 3 weeks before your course begins: <u>http://admission.asu.edu/graduate/nondegree</u> as a nondegree summer grad student (\$70 appl fee) -- no transcripts needed. Search for course at <u>http://webapp4.asu.edu/catalog</u>. Register for course at least 1 week before course begins.

