

Science in Motion provides middle and high school students with access to advanced science experiments, equipment, and instruction for enhanced STEM learning – all at no cost to the school. Mobile educators visit schools with all supplies needed for a variety of science experiments.



Wilkes SIM currently offers laboratory experiments in the areas of Chemistry and Biology. While most of the labs are designed for grades 9-12, there are some inquiry based, hands-on labs that are appropriate for grades 6-9.

*Some labs can be adapted to Elementary School Students

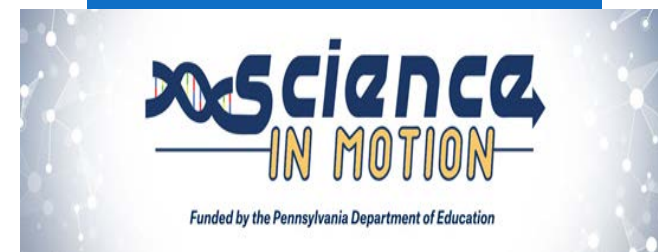
Website:
<https://www.wilkes.edu/sim>

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Taking hands-on laboratory experiences to middle and high schools throughout northeastern Pennsylvania.



SIM also offers professional development for teachers through workshops and interaction with other secondary teachers and university faculty.



Wilkes University



Counties Served:

- Bradford
- Carbon
- Lackawanna
- Luzerne
- Monroe
- Northampton
- Pike
- Schuylkill
- Susquehanna
- Wayne
- Wyoming

**Serving Schools in a 62 mile radius from Wilkes.

Equipment List:

2 Gas Chromatographs
 1 HPLC
 18 pH Meters (8 Corning-10 Thermos)
 Various Vernier Physics Equipment
 Vernier Circuit Board
 Vernier Wind Turbine Kit
 14 Genesys 20 Spectrophotometers
 8 Genesys 10S UV-VIS Spectrophotometers 1
 Nicolet Is5 FTIR Spectrophotometer
 8 Vernier Carousel Emission Sources (7 tubes)
 2 Spectrum Tube Analyzers
 2 Sets of Oxygen Sensors
 Balances -6 Analytical & 6 Toploading
 10 Large and 12 Small Stirrer/Hot Plates
 14 Mel-Temps (Vernier & Analog)
 29 Leica Compound Microscopes 40-1000X
 6 Olympus Compound Microscopes 40-1000X
 1 Culture Incubator
 2 Water baths
 18 Vernier Interfaces
 8 Vernier Temperature Probes
 8 Vernier Pressure Sensors
 8 Vernier Radiation Monitors
 Electrophoresis Equipment (w/power supplies)
 Vernier Mini GC® Plus Chromatograph
 12 Electrophoresis Chambers (with combs and gel beds)
 6 Battery Powered Viewers (small)
 1 AC Viewer (large)
 8 Leica Stereoscopes
 PCR Equipment
 1 Thermocycler
 2 Vortexers
 2 Centrifuges
 6 Vernier-HR, BP, EKG, Resp. Rate Monitors 1
 UV Viewer
 20 Laptop Computers

Background:

Founded in 1987 at Juniata College, 10 colleges and universities currently serve over 200 school districts in Pennsylvania. Wilkes University joined the consortium in 2002 to serve northeastern Pennsylvania.

This statewide resource-sharing program is funded by the Pennsylvania legislature and the Pennsylvania Department of Education.

How SIM Works:

Secondary teachers contact the Wilkes SIM mobile educator to schedule a visit. Our mobile educator will bring prepared laboratory kits and equipment right to the school, providing access to equipment not typically available in secondary schools. Mobile educators train teachers on the use of labs and equipment and, if requested, they can team-teach or lead classes through the activity.

Why Use SIM?

With the need for STEM-based education increasing rapidly, Science in Motion provides students with hands-on experience without straining budgets. SIM helps students advance their educations and compete for positions in a workforce where knowledge and use of current technology is imperative.

See Webpage for available labs
 *Some Labs can be adapted to
 Elementary and Middle School

**Now Offering Various Physics Labs & Experiments.
Check our website for a detailed list*