

Philip A Schmitz
pschmitz@bluecc.edu

EXPERIENCE IN EDUCATION:

September 2008 – June 2022

Blue Mountain Community College

Full-Time Faculty

Pendleton, OR

Duties included: design of curriculum, learning materials, laboratory and guided inquiry experiments; developed a catalogue of homework for physics in My Open Math (an on-line Open Resource Tool for science and math); integrated learning material into Canvas; presented course information and substantive student interaction in lecture format, lab experience, and on-line interaction; and developed procedures, rubrics, and plans for assessing student learning and improving instruction.

Classes taught: Introductory geology sequence for majors (face to face), introductory geology sequence for non-majors (face to face, synchronous remote via ZOOM, asynchronous remote using Canvas), geology of the Pacific Northwest for non-majors (asynchronous remote via Canvas), Calculus and algebra based general Physics (face to face, and synchronous remote via ZOOM), conceptual physics (face to face), and physical science (asynchronous remote using e-companion).

Served as Department Chair from 2015 to 2022 (Department Chair Leader during academic year 2018-2019). As Department Chair, I proposed course offerings and schedules that reflected diverse curriculum and modalities while maintaining an average fill rate above 70%, monitored a departmental budget of \$45,000-\$60,000 while working with faculty and lab manager to improve efficiencies in purchasing, led department assessment activities, including a pilot project for a common departmental assessment activity in 2015, prepared departmental reviews and reports in 2016 and 2021, and prepared a recruitment plan for STEM students.

Participated on the Integrated Resource Committee (IRC) from 2017-2022. IRC is part of the college's shared governance and is tasked with making recommendations to the board regarding tuition and fees, and budgetary changes. As a member of the IRC, I was a member of the 2018 Summer Budget Oversight workgroup, a workgroup tasked with identifying the feasibility of, and prioritizing different proposals to increase college revenue and decrease costs.

College Coordinating Council from 2012-2016 (chair 2014-15). College Coordinating Council is part of the shared governance that provides oversight and direction to other committees, oversees the strategic planning process, establishes priorities for college-wide initiatives, and acts as a college-wide guiding body to provide recommendations to the President.

Curriculum Committee from 2010 to 2015, 2019 to present. The Curriculum Committee is part of the college's shared governance responsible for overseeing changes to course descriptions; course and program pre-requisites; program descriptions and curriculum; approval of new courses and new programs; policies and procedures related to academic offerings; and maintain the accuracy of curriculum information in the student handbook and college catalogue. As a member of the curriculum committee, I served on sub-committees responsible for presenting new programs in Green Technology, Mechatronics, and Medical Assisting, and on a sub-committee responsible for approving changes and modifications in the Engineering Technology program.

Other service to the college includes: maintaining an advising load of 10-25 students per year; developing guided pathways for students interested in transferring into STEM degrees; providing workshops to other advisors and student success coaches regarding science course advising; serving as faculty lead for "Project Renaissance", an Office of Instruction led initiative in 2020 to evaluate procedures and priorities; serving on search committees for full-time faculty positions in science (2012, 2013, 2017, 2020), science lab coordinator/academic support specialist (2018), assistant athletic director (2018), dental assisting faculty positions (2018), soccer coaches (2018); serving on non-governance committees Students First Advisory Council (2015-2017), Program Review Committee (2016-2020), and Assessment Committee (2016-2018), and Strategic Planning Committee (2015, 2020, 2022); participated in BMCC Leadership Class 2010-11; organization of the National Association of Geoscience Teachers Pacific Northwest Section annual meeting and conference in 2022.

August 2004 – June 2008
Dawson Community College

Science/Engineering Instructor
Glendive, MT

Developed curriculum and provided face to face student instruction in Geology, Geography, Mathematics, Physics, and Environmental Science, and remote instruction in mathematics using ITV.

In addition to full time instruction: I represented the college in meetings with 4-year universities in Montana to develop common course objectives and developed articulation agreements; developed a 2-year Associate of Applied Science degree in Engineering Technology; served on Academic Affairs committee, which is responsible for assessment of curriculum and curriculum changes and makes recommendations regarding academic programs to the President, served on committees that made extensive revisions to the college catalogue and core curriculum; initiated course assessment techniques, and served on committees responsible for hiring other faculty and administrators.

May 1993 – June 1998
Judge Memorial Catholic High School

Science Teacher
Salt Lake City, UT

Prepared curricula and individual lesson plans for both lecture and laboratory components of courses in Biology, Honors Physics, Chemistry, Physical Science, Geology, and Environmental Science; Cooperated with other faculty members to enhance course curricula including development of cross-curricula opportunities; Worked with administration to develop budgets, plan academic schedules, and allocate resources for faculty development.

ADDITIONAL EXPERIENCE:

March 2002 – August 2004
Environmental Compliance Consultants, Inc. (ECCI),

Project Engineer
Green Bay, WI

Employed as the professional staff at the Wausau/Stevens Point office. My primary role was to manage environmental remediation projects by completing or facilitating all the actions necessary to complete investigations within regulatory requirements and established fiscal and time constraints. In addition, I also worked with nonmetallic mine operators to assist them with meeting regulatory and operational requirements that included developing operation and remediation plans; assisted personnel in other offices with geotechnical projects; Tier II reporting for a wastewater facility at a metal fabricating plant; wetland delineation, mapping, and reporting to US Army Corp of Engineers; and *Spill Prevention Containment and Control* Plans at various sites in Wisconsin.

June 2000 – February 2002
Central Wisconsin Engineers and Architects, Inc.,

Staff Engineer
Weston, WI

Provided technical reporting and evaluation for subsurface investigations and remedial actions at 26 leaking underground storage tank (LUST) and above ground storage tank (LAST), and one nonmetallic mine operator to meet regulatory and operational needs. I worked with the management team to coordinate fiscal and personnel resources within established budgets, communicated with clients and regulatory authorities. I also assisted senior engineering personnel with environmental sampling at landfills, pretreatment system specification and Tier II reporting for a wastewater at a metal fabricating plant, and preparation of zoning maps for municipalities using GIS software.

EDUCATION

2004-2008 – Continuing Education - Graduate classes in Science Education

Montanan State University – Bozeman, MT

2006 – Continuing Education – Geographic Information Software

University of Montana – Missoula, MT

2000 – Masters of Science – Geological Engineering

University of Utah – Salt Lake City, UT

1993 – Bachelors of Science – Biology

University of Notre Dame – Notre Dame, IN

1992 – Russian Language Program

Conducted at the University of Siberia in Novosibirsk
University of Texas – Austin – Austin, TX

1991– Juneau Icefield Research Program

University of Idaho – Moscow, ID

JOB-RELATED SKILLS AND LICENSES

Computer Skills

ESRI ArcMap GIS software
AutoDesk AutoSketch
Microsoft Office Package (Word, Excel, Power Point, and Access)
Groundwater Modeling Software (GMS) Modpath, Modflow

Related Training

Engineer in Training (EIT) (2000)
OSHA 40-hour HAZWOPER training (2002)

Professional Memberships

American Association of Physics Teachers (AAPT)
National Association of Geoscience Teachers (NAGT)

Community Service

2019 – Present, City of Pendleton, Department of Parks and Recreation Citizen Advisory Board
2017 –2021 Eastern Oregon Climate Change Coalition Board Member (secretary 2017-2018)
2012 – Present, Pendleton Ice Boosters Association, Board Member and Hockey Coach
2011 – 2015, Pendleton Swim Association Board Member, (president 2012-2014)
2011 – 2021, Hermiston Soccer Officials, youth and high school soccer referee
2008 – 2010, Pendleton Youth Soccer Association, Age group coordinator
2004 – 2008, Friends of Makoshika, Board Member (president 2006-2008)

Publications and Professional Presentations

2022, Schmitz, P. “Field Trip Guide,” National Association of Geoscience teachers Pacific Northwest Section 2022 Conference at Blue Mountain Community College, June

2019, Schmitz, P., “Providing Lab Science to BMCC Centers using ZOOM,” presented to the Blue Mountain Community College Board of Education, April

2018, Schmitz, P., “What to expecting in Eastern Oregon during a Cascadia Subduction Event,” presented to the Pendleton Chapter of the AAUW, April

2018, Schmitz, P., “My time on the Juneau Icefield Research Project,” 3rd Tuesday Climate Conversation, EOC3, Pendleton, OR, March

2017, Schmitz, P., “Aligning Course Objectives with Assessment goals,” BMCC Summer Assessment Workshops, July

2017, Schmitz, P, Franell, J., Roberts, T., “Cascadia Aftermath,” East Oregonian Forum, Blue Mountain Community College, February

2015, Schmitz, P., “Using Physics to Teach Math,” GED instructor workshop, BMCC, May

2014, Schmitz, P., “The Rock Story,” National Rock Hounds Convention, Hermiston, OR, August

2012, Schmitz, P., “Standards Based Grading,” BMCC Faculty Information Center, December

2001, Schmitz, P., Duyvesteyn, S., and Johnson W.P., “Adsorption of Aurocyanide Complexes onto Carbonaceous Matter from Preg-Robbing Goldstrike Ore,” *Hydrometallurgy*, 61, 121-135

2000, Schmitz, P., Johnson W.P., and Duyvesteyn, S, “Gold Leaching from Goldstrike Ore Carbonaceous Matter and its Relationship to Preg-Robbing,” *Hydrometallurgy*, 60, 25-40. 2000

2000, Schmitz, P. and Johnson, W.P., “Adsorption of Aurocyanide Complexes onto Carbonaceous Matter from Preg-Robbing Goldstrike Ore”, presented to University of Utah Department of Metallurgy, Salt Lake City, March 2000

1999, Schmitz, P. and Johnson, W.P., “Gold Leaching from Preg-Robbing Goldstrike Ore,” presented at SME national Convention, Denver Colorado, March 1-3

1993, Schmitz, P, “Lichen dating of Glaciers Retreat on Nunataks on the Juneau Icefields,” unpublished, on file with the Juneau Icefield Research Project, Moscow, ID