

M.S. Degree in Research Translation for Environmental Science

Department of Soil, Water, and Environmental Science

The University of Arizona

March 2011

This program will award a M.S. degree in Soil, Water, and Environmental Science with a specific focus on research translation for environmental science.

Environmental issues such as water, air, and land pollution, ecosystem degradation, climate variability, and energy-resource sustainability continue to present complex challenges to human health and economic development. It is now recognized that efforts to address and resolve environmental issues are most effective when all affected stakeholders are fully engaged and working towards a unified solution. The goals of Environmental Research Translation are to enhance collaborative participation amongst stakeholders towards a common purpose, to facilitate communication between stakeholders, and to serve as an unbiased conduit of knowledge and information. Research translation consists of a wide variety of components, methods and approaches such as: technology transfer, educational outreach, communication via print and web media, community interaction, and information-transfer support for decision-making. This M.S. program is designed to provide the education and training to develop successful Environmental Research Translation practitioners. This focal area is available under the thesis or non-thesis option.

SWES Required Courses (10 units)

- Select One: SWES 520 Environmental Physics (3 units), SWES 570 Soil Physics (3 units)
- Select One: SWES 525 Environmental Microbiology (3 units), SWES 574 Aquatic Plants & the Environment (3 units), WSM 552 Dryland Ecohydrology (3 units)
- Select One: SWES 562 Environmental Soil and Water Chemistry (3 units), SWES 564 Environmental Chemistry (3 units)
- SWES Seminar (1 unit)

Research Translation Core Courses (12 units)

- SWES 518 Introduction to Human Health Risk Assessment (3 units)
- SWES 544 Applied Environmental Law (3 units)
- SWES 515 Translating Environmental Science (3 units)
- JOUR 596d Issues in Covering the Environment (3 units)

Additional Course Work (6 units)

Select Two:

- CPH 575 Environmental and Occupational Health
- CPH 526 Topics in Environmental Justice
- CPH 580 Community Based Research Methods
- GEOG 596K Risk and Society
- JOUR 5xx Principles of Science Journalism
- JOUR 589 Research Methods
- PA 581 Environmental Policy
- SWES 508 Scientific Writing for Environmental, Agricultural and Life Sciences
- SWES 603K Engaging the Public in Environmental Decision-Making
- TTE 530 Environmental Learning (Education)
- WFSC 595A Biopolitics: Communication and Public Relations Skills

Thesis or Project (2 units)

SWES 910 Thesis (2 units)- thesis option

or

SWES 909 Research Translation Project (2 units)- non-thesis option

Questions related to this program can be directed to:

Dr. Mark Brusseau, Brusseau@email.arizona.edu

Questions related to the SWES graduate program in general can be directed to:

Dr. Markus Tuller, mtuller@cals.arizona.edu