INTEGRATED SCIENTIFIC APPLICATIONS

The ProgramS
The Department of Integrated Scientific Applications offers:

- Earth Science Post-Baccalaureate Certification (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/earth-sciences-post-baccalaureate-certification/)
- Integrated Scientific Applications, M.S. (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms/)
- Integrated Scientific Applications, M.S. - Climate Science Applications (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms-climate-science-applications/)
- Integrated Scientific Applications, M.S. - Environmental Systems Management (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms-environmental-systems-management/)
- Integrated Scientific Applications, M.S. - Geoinformatics (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms-geoinformatics/)
- Integrated Scientific Applications, M.S. - Space Weather and Environment (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms-space-weather-environment/)
- Integrated Scientific Applications, M.S. - Weather Intelligence & Risk Management (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/integrated-scientific-applications-ms-weather-intelligence-risk-management/)
- Space Weather and Environment Certificate (https://catalog.millersville.edu/graduate/college-science-technology/integrated-scientific-applications/space-weather-environment-certificate/)

Graduate Faculty
Richard D. Clark, Department Chairperson, Graduate Program Coordinator.
Dr. Sam Earman, Ph.D., New Mexico Institute of Mining and Technology, 2004, Environmental Hydrology.
Ajoy Kumar, Ph.D., Old Dominion University, Physical Oceanography.
Dr. Tamitha Skov, University of California, Los Angeles, 2002, Space Weather; Solar Physics.
Dr. Robert Vaillancourt, Ph.D. University of Rhode Island, 1999, Environmental Oceanography.
Sepideh Yalda, Ph.D., St. Louis University, 1997. Atmospheric Sciences.

ISCA 579: 1-3 s.h.
Experimental
Experimental course number for Integrated Scientific Applications. Topics vary.

ISCA 591: 3 s.h.
Intro Geospatial Info & Tech
Explores the core concepts of geographic information and the tools and technologies employed to access, manipulate, analyze, and display geographic information. Topics include geographic information systems, remote sensing, global positional systems, cartography, spatial science ethics, and crowdsourcing of geographic information. Reserved for Integrated Scientific Applications majors or permission of instructor.

ISCA 679: 1-4 s.h.
Experimental
Experimental Course in Integrated Scientific Applications