

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. Ph.D., University of Wyoming, 1987. Atmospheric Sciences.

Dr. Sam Earman, Ph.D., New Mexico Institute of Mining and Technology, 2004, Environmental Hydrology.

Michael R. Gumpper, Ph.D., University of Kentucky, 1998. Economics.

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 580: 1-6 s.h.

Independent Study

Independent Study in Integrated Scientific Applications.

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