**Issues in Scientific Integrity**

# FOR 8070-003 (CRN212703)/PRTM 9000-001 (CRN19824)/WFB 8630-003 (CRN21275)

# (3 credits)

Prof. G. Machlis Clemson University

T TH, 11:00a – 12:15p

**Spring 2025**

***About the Course***

Scientific integrity is essential for scientific knowledge to advance, citizens to have trust in the scientific enterprise, science to usefully inform public policy, and scientists to have professional and positive careers.

Issues in scientific integrity include:

***Scientific Integrity***

Illustration by Mavek Haiduk, adapted 2014

* ethical decision making,
* responsible field/lab work,
* provenance of data and samples,
* authorship,
* conflicts of interest,
* scientific misconduct,
* sexism and racism in science,
* and more.

In this course we will examine contemporary issues in

scientific integrity using general standards,

disciplinary-specific codes of conduct, and case studies.

The course will include brief lectures, readings, discussion,

and casework. Our objectives are to describe the many issues

surrounding scientific integrity, understand their sources and

implications, and apply these insights to the preparation of

scientific and professional careers. Our focus is on US science

(science integrity is essential elsewhere, of course), and

many but not all of our examples will be taken from the

environmental and conservation sciences. Reliable access to

the internet will be necessary.

This course satisfies 6 hours of [advanced RCR credit](https://www.clemson.edu/research/compliance/rcr/training.html) as determined by Clemson University’s Office of Research Compliance. Students are responsible for providing evidence of course completion for credit.

***About the Instructor***

Dr. Gary Machlis is University Professor of Environmental Sustainability at Clemson University. From 2009-2017, he served as Science Integrity Officer for the US National Park Service (NPS), adjudicated numerous cases for the Department of the Interior, and led the effort to establish a science integrity policy and code of conduct for the NPS. For more information about the course contact Dr. Machlis at machlis@clemson.edu.