Marine, Earth and Atmospheric Sciences

Graduate programs are offered in Atmospheric Science, Earth Science, and Marine Science. Within marine sciences the subdisciplines include: biological, chemical, geological and physical oceanography.

Admission Requirements

A Bachelor's degree with research experience or a Master's degree is required for entry into the Ph.D. program. A Bachelor's degree in a science, mathematics or engineering is required for entry into the M.S. program in Atmospheric science, Earth Science, and Biological, Chemical, Geological or Physical Oceanography. Undergraduate field camp is required of all students in the M.S. program in earth science; this requirement may be fulfilled before or after admission. An M.S. degree with a non-thesis option for students is available and admission to this option must be requested at the time of application.

Master's Degree Requirements

The M.S. degree requires a minimum of 30 credit hours. Specific course requirements are determined by the advisory committee of each student. However, MEA 601 Seminar is required of all thesis M.S. students no later than the third semester in residence. Marine science students are required to take core courses in two of the three subdisciplines other than their own.

Doctoral Degree Requirements

Specific courses are determined by the student's advisory committee. Registration in seminar, MEA 801, is required of all Ph.D. students no later than the fourth semester in residence. Marine science students are required to take core courses in all three subdisciplines other than their own; this requirement may be fulfilled at the M.S. level.

Student Financial Support

Research and teaching assistantships are available.

Other Relevant Information

Students are assigned initial advisors upon admission. It is the student's responsibility to secure the consent of a faculty member to serve as the permanent advisor who will chair or co-chair the advisory committee.

Degrees

- Marine, Earth, and Atmospheric Sciences (MS) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-ms/)
- Marine, Earth, and Atmospheric Sciences (PhD) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-phd/)
- Marine, Earth, & Atmospheric Sciences (Minor) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-minor/)
- Climate Adaptation (Certificate) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/climate-adaptation-certificate/)

Faculty

Full Professors

- Viney Pal Aneja
- DelWayne R. Bohnenstiehl
- David B. Eggleston
- David Paul Genereux
- Peter Jeurgen Harries
- Ruoying He
- Gary M. Lackmann
- Elana L. Leithold
- Jay Frederick Levine
- Jing-pu Liu
- David A. McConnell
- Nicholas Meskhidze
- Helena Mitasova
- Lewis Andrew Owen
- Matthew David Parker
- Markus Dirk Jan Petters
- Walter A. Robinson
- William J. Showers
- Lian Xie
- Sandra E. Yuter

Associate Professors

- Anantha Aiyyer
- Paul Kevin Byrne
- Christopher Lee Osburn
- Astrid Schnetzer
- Karl William Wegmann

Assistant Professors

- Carli Arendt
- Stuart Bishop
- Ethan Gordon Hyland
- Sarah Larson
- Ryan William Paerl
Arianna Soldati

**Practice/Research/Teaching Professors**

Otis B. Brown  
Curtis Congreve  
Brian K. Eder  
Elisabeth Streit Falk  
Kenneth E. Kunkel  
Roberto Javier Mera  
Carrie J. Thomas  
Joseph Brendan Zambon

**Emeritus Faculty**

Fredrick Semazzi  
Charles Ernest Knowles  
Satya Pal Singh Arya  
Jerry M. Davis  
David John DeMaster  
Ronald Victor Fodor  
John Crothers Fountain  
James Patrick Hibbard  
Thomas Sawyer Hopkins  
Daniel Kamykowski  
Leonard J. Langfelder  
Leonard J. Pietrafesa  
Sethu Raman  
Allen J. Riordan  
Dale A Russell  
Ping-Tung Shaw  
Edward F. Stoddard  
Charles W. Welby  
Donna Lee Wolcott  
Thomas G. Wolcott  
Scott Anthony Braun  
Michael Brennan  
Subrahmanyam Bulusu  
Brian A. Colle  
Johannes Michael Leopold Dahl  
Kathie Dello  
David R. Easterling  
Scott Howard Ensing  
Peter Hamilton  
Russel S. Harmon  
Barron Halton Henderson  
Nam-Young Kang  
David E. Kingsmill  
Branko Kosovic  
Emlyn Howard Koster  
Huiqing Liu  
David Mechem  
Andrew Newell  
Sharon Phillips  
Brandon Puckett  
S. Trivikrama Rao  
Joseph Rudek  
Blake Schaeffer  
Jenni Stanley  
Robert Christopher Tacker  
Susan White  
Shaocai Yu  
Yang Zhang

**Adjunct Faculty**

William Howard Battye  
Geoffrey Weszely Bell