Marine, Earth, and Atmospheric Sciences (PhD)

Degree Requirements
Graduate programs are offered in Atmospheric Science, Earth Science, and Marine Science. Specific course requirements are determined by the advisory committee of each student.

Degrees earned will be distributed as: "Doctor of Philosophy in Marine, Earth, and Atmospheric Sciences" without track specifications.

Marine Science Track
Within marine sciences the subdisciplines include:
- Biological Oceanography
- Chemical Oceanography
- Geological Oceanography
- Physical Oceanography

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MEA 540</td>
<td>Principles of Physical Oceanography</td>
<td>12</td>
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<tr>
<td>MEA 549</td>
<td>Principles of Biological Oceanography</td>
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<td>MEA 570</td>
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<tr>
<td>MEA 573</td>
<td>Principles of Chemical Oceanography</td>
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Seminar Course 2 MEA 801 Seminar

Area of Focus Courses 50

Courses in the "Area of Focus" are determined in conjunction with the academic committee

Courses Outside Area of Focus 9

"Courses Outside Area of Focus" are determined in conjunction with the academic committee

Total Hours 72

1 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.
2 MEA 801 is required of all Ph.D. students no later than the fourth semester in residence.

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

Adjunct Faculty
William Howard Battye
Geoffrey Weszely Bell
Scott Anthony Braun
Michael Brennan
Subrahmanyam Bulusu
Brian A. Colle
Jeffrey Cunningham
Johannes Michael Leopold Dahl
Kathie Dello
David R. Easterling
Scott Howard Ensign
Troy Gilmore
Peter Hamilton
Russel S. Harmon
Barron Halton Henderson
Nam-Young Kang
David E. Kingsmill
Branko Kosovic
Emlyn Howard Koster
Benjamin Kravitz
Huiqing Liu
David Mechem
Andrew Newell
Lester Perry
Sharon Phillips
Brandon Puckett
S. Trivikrama Rao
Joseph Rudek
Blake Schaeffer
Jenni Stanley
Robert Christopher Tacker
Susan White
Shaocai Yu
Yang Zhang