**Explorations in Integrated Science (MCB/IS 303).** Fall 2014. 4 credits.
Students learn to integrate knowledge and research approaches from multiple scientific disciplines through four laboratory- and lecture-based modules. Course is focused on Earth systems research and module topics include: 1) Trace gas dynamics in the plant-soil continuum; 2) Flow of carbon in ecosystems; 3) Soils, water flow, and soil-plant interactions; 4) Modeling the land component of an Earth system model. Each module includes both lectures on campus and research time at Biosphere 2. Several full days at Biosphere 2 are scheduled for this purpose. This is a unique opportunity to participate in ongoing interdisciplinary experiments at Biosphere 2!
This is a writing emphasis course and students are graded on the research reports they write. The course is taught by a team of Biosphere 2 scientists representing an interdisciplinary mix, Joost van Haren, Katerina Dontsova, and Guo-Yue Niu.

Course Requirements: MATH 122A & B, or MATH 125, General Chemistry 151. Prerequisites can be waived if instructors consent.

Joost van Haren  
Assistant Research Professor  
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