

1-1-2014

Botany Curriculum Map 2013-2014

Cynthia Cohen

Claremont University Consortium

Char Booth

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Dani Brecher

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M. Sara Lowe

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This map displays degree requirements, courses, faculty information, clubs & organizations, and Library resources associated with American Studies across the seven Claremont Colleges (7Cs) for the 2013-14 academic year. It was compiled using public information drawn from Colleges websites, course schedules and catalogs, and the Claremont Colleges Library website. **These maps should be understood as a snapshot of the consortium in time, and not representative of current information beyond 2013-14.**

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Authors

Cynthia Cohen, Char Booth, Dani Brecher, M. Sara Lowe, Sean M. Stone, and Natalie Tagge

Faculty

Lucinda A. McDade, Ph.D. (Botany Department Chair)
 Professor of Botany, CGU
 Judith B. Friend Director of Research, RSABG
Acanthaceae, the role of hybridization in plant evolutionary history and in phylogeny reconstruction, plant reproductive biology.

J. Travis Columbus, Ph.D.
 Professor of Botany, CGU
 Research Scientist, RSABG
Systematics of the grass family (Gramineae or Poaceae), especially subfamily Chloridoideae

J. Mark Porter, Ph.D.
 Associate Professor of Botany, CGU
 Research Scientist, RSABG
Theory and applications of phylogenetic systematics, paleontological and taxonomic contributions of phylogenetic information for the conservation of biotic diversity.

Linda M. Prince, Ph.D.
 Research Associate Professor of Botany, CGU
 Research Associate, RSABG
 (Manages RSABG research labs)
Conservation genetics: systematics of the Theaceae (including reevaluation of morphological, anatomical, and molecular data) and Zingiberaceae, especially Cannaceae (based on chloroplast rbcL DNA sequence data).

Carol A. Wilson, Ph.D.
 Research Associate Professor of Botany, CGU
 Research Scientist, RSABG
*Molecular phylogenetics, systematics and biogeography of the (Fumicaceae) and Loranthaceae, and the evolution and developmental morphology of leaf elaborations, dorsiventral leaves and geophytic structures in *Inti*, haustorial systems in the Loranthaceae and floral symmetry in both the *Utriculariaceae* and *Loranthaceae*.*

Elizabeth A. Filar, Ph.D.
 Adjunct Associate Professor of Botany, CGU
 Research Associate, RSABG
Genetic variability and evolution in the woody bamboos (Bambusoideae: Poaceae): effects of rapid change in population size and structure of several species in the Hawaiian silversword alliance (Asteraceae).

Emeriti Faculty
Lee W. Leach, Ph.D., Washington University at St. Louis
Robert F. Thorne, Ph.D., Cornell University

Animesh Ray, Ph.D.
 Professor, Faculty Chair
 Director of the AGI PhD Program
 Director of the Center for Network Studies
Gene Function, Gene Regulatory Networks, Genomics, Phenotypic Plasticity, Gene Targeting, Microfluidic Systems Biology, Epigenetic Regulation, Plant Molecular Biology, Plant Development, Molecular Biology, Synthetic Biology, Molecular Computing

Larry Gill, Ph.D.
 Adjunct Professor
 (see Keck Science)

Sharon Gerhardt
 Assistant Professor of Physics
Plant biomechanics. Experimental soft matter physics: colloids and adaptive biomaterials.

Frances Hanzawa
 Associate Professor of Biology
 (Faculty Liaison to PPA joint major)
Evolution and ecology, especially of plants; population genetic and demographic consequences of seed dispersal; plant-animal interactions

David Becker
 Associate Professor of Biology and
 John P. & Magdalena R. Dexter Professor of Botany
Plant physiology, growth, and developmental structure and function of photosynthetic membranes; plant responses to environmental stresses

Diane Thomson
 Associate Professor of Biology
 Associate Professor of Environmental Science
Population and community ecology, conservation biology, population modeling, ecology of invasions, and plant/pollinator interactions.

Bryan Thines
 Assistant Professor of Biology
Molecular and physiological responses of plants to environmental stress (circadian clock regulation, targeted protein degradation), especially re: climate change

Larry Gill
 Visiting Professor of Biology
 Adjunct Professor, AGI
 Director of the Vaccine Development Institute, Pfizer
Production of vaccines in plants

Botany

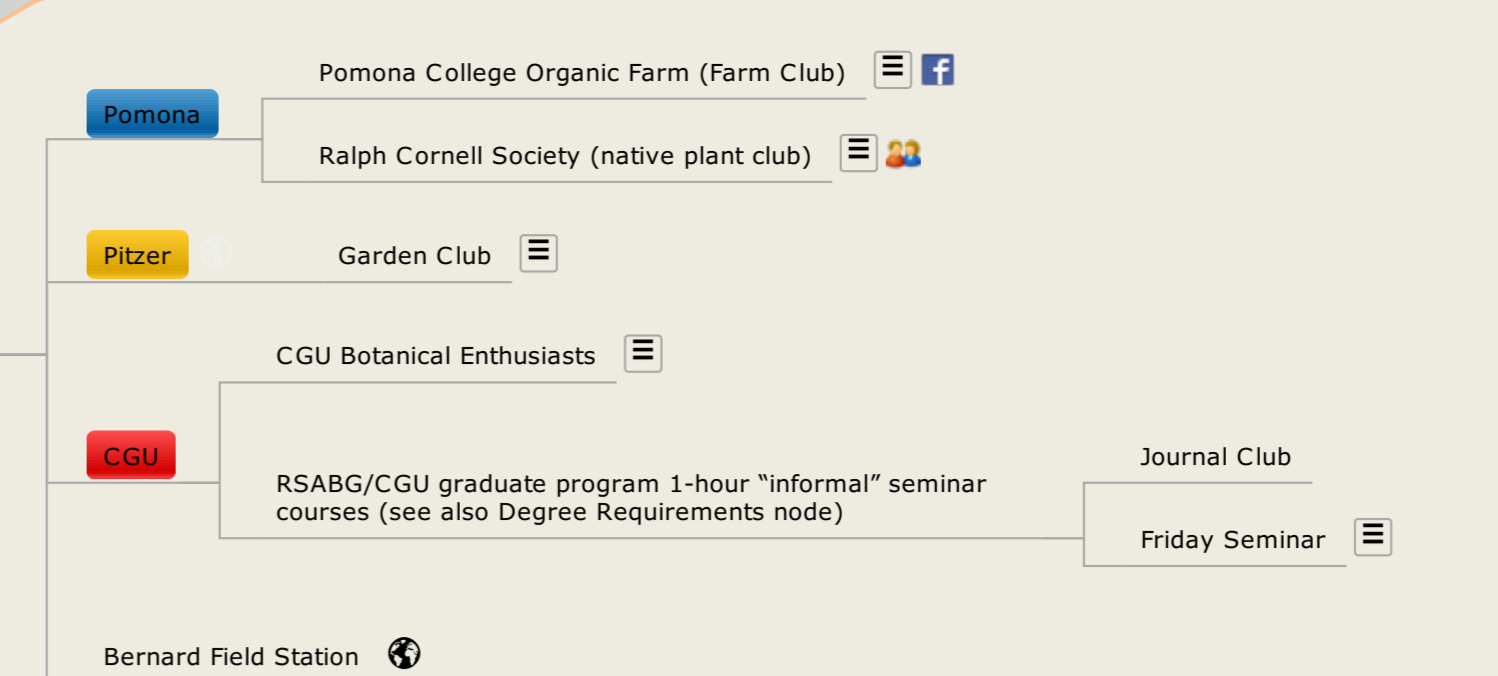
Plant researchers not in a botany department

Physics

Biology

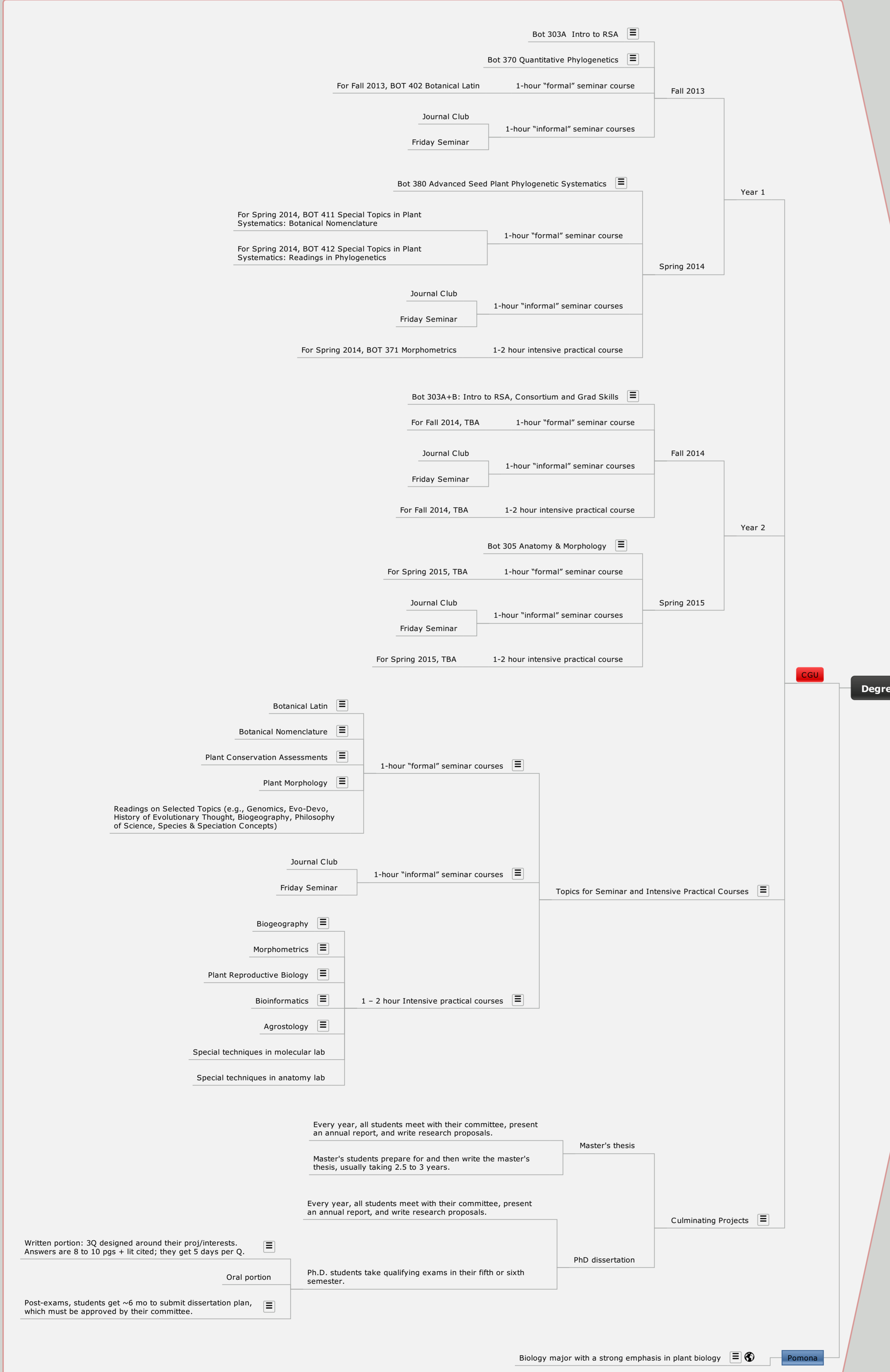
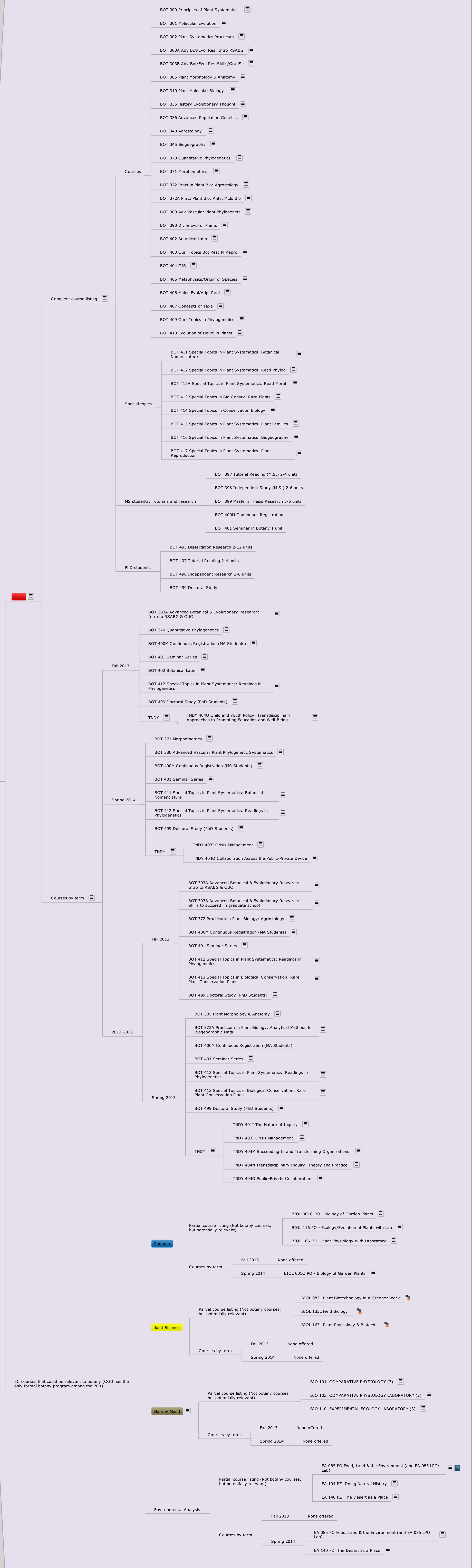
Degree Requirements

Clubs & Organizations

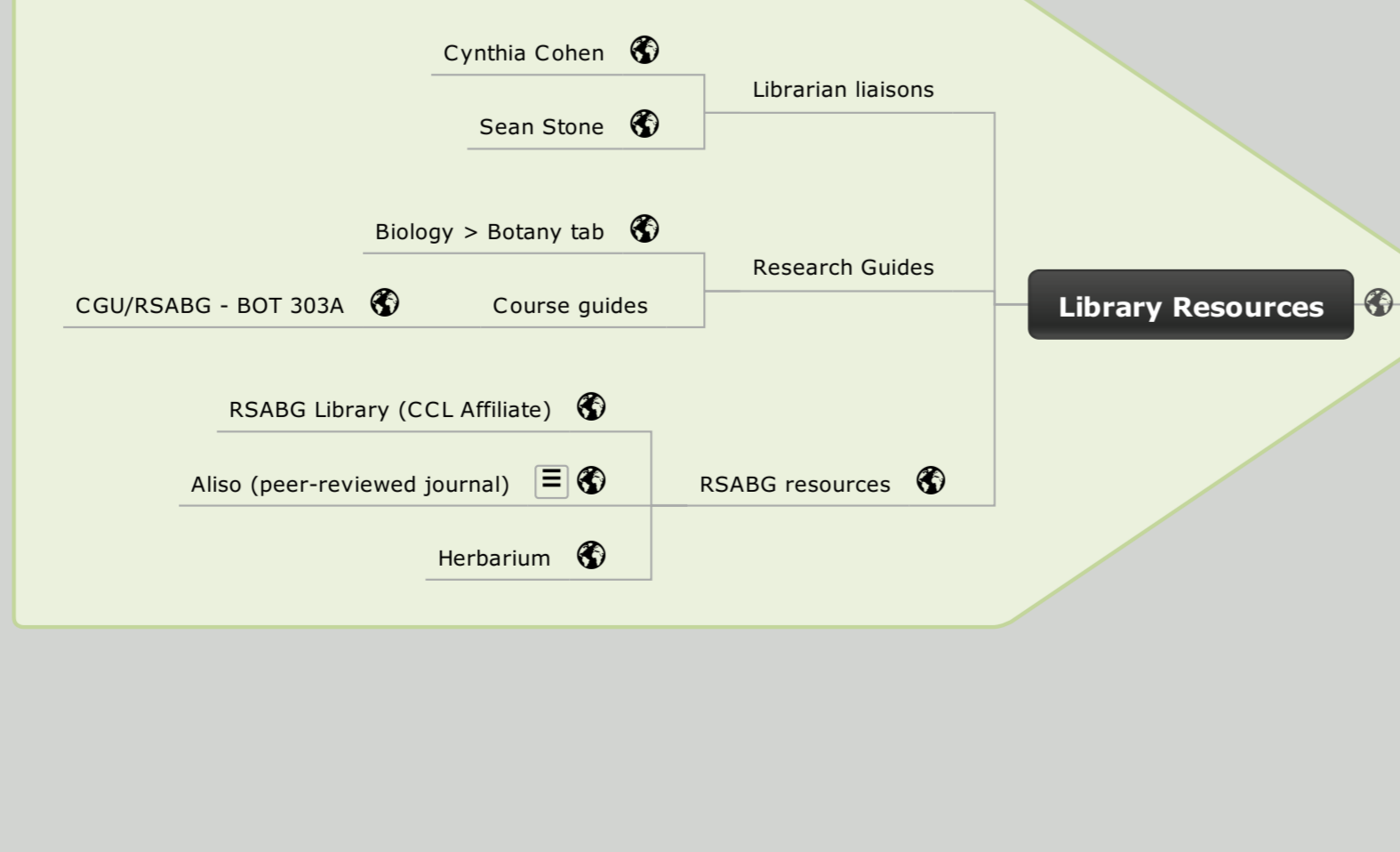


7Cs Botany Curriculum 2013-14

Courses



Library Resources



SC courses that could be relevant to botany (CGU has the only formal botany program among the 7Cs)