BOTANY, PHD

LEARNING OUTCOMES

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- Demonstrate a fundamental breadth of understanding of the basic properties of plant life from the subcellular to the ecosystem level of organization, and an ability to integrate acquired botanical expertise with knowledge of related disciplines including, but not limited to, mathematics, physical sciences, and other life sciences.
- Apply all elements of the methodological or theoretical framework within a specialized botanical subdiscipline to skillfully develop and execute original research, thereby demonstrating intellectual and technical competency appropriate to that subdiscipline.
- 3. Achieve a professional level of proficiency communicating scientific research proposals and/or results in written format.
- 4. Develop skills in oral presentation of scientific research data to peers and general audiences.
- 5. Evaluate, critique, and apply critical thinking skills to the generation of hypotheses, analysis of data, and interpretation of scientific results in botany and related disciplines.
- 6. Value and promote professional ethics in the collection, analysis, storage, and presentation of scientific data.
- 7. Engage in critical and respectful debate, discussion, and exchange of scientific information among peers and audiences of diverse intellectual and personal backgrounds.
- 8. Appreciate the importance of professional service.