

## Linda Griffin Gingerich, Ph.D.

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### **EDUCATION**

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Doctor of Philosophy in Zoology (emphasis in Ecology & Evolution)	University of Texas at Austin	1987 - 1995
Doctor of Philosophy in Biology (30 credits of graduate coursework - no degree; emphasis in Behavioral Ecology)	University of Utah	1982 - 1983
Bachelor of Science in Zoology	University of Florida	1978 - 1981

### **PROFESSIONAL EXPERIENCE**

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#### **Academic Department Chair, Baccalaureate Biology** December 2009 - present

St. Petersburg College Clearwater, Florida

I became the Academic Chair when SPC first began the BS in Biology program in 2009. As such, I was responsible for determining the overall program goals, the courses to include in the program, sequencing of the courses, and development of the curriculum documents for institution and state approval. This required research on programs within the Florida University system to ensure comparable breadth and rigor. I authored the documents for 19 courses, co-authored for 6 courses, and provided administrative oversight and editing for 18 courses. Other Chair duties include scheduling classes, hiring adjunct faculty, overseeing laboratory staff, advising students, creating advising documents, creating academic maps, and writing program viability and assessment reports. We also regularly review existing courses. I also assisted in the development of an AS in Biotechnology degree creating workforce-oriented curriculum with guidance from industry leaders and an Advisory Board. Academic Chairs also have faculty responsibilities with a teaching load of 3 – 6 courses per semester. In this position, I have taught and fully developed associated course content for 11 different upper division lecture/discussion-based courses and 5 different laboratory classes. We started with 20 students in our first term and grew rapidly with our current enrollment remaining steady at approximately 220 students within the Baccalaureate Biology program. On average, 40 students graduate per year. We developed a curriculum that is lab intensive and focuses on reading and discussing scientific literature and cultivating all types of scientific communication skills.

#### **Professor, Department of Natural Sciences** August 1997 - December 2009

St. Petersburg College Tarpon Springs, Florida

In this position, I taught and designed lecture, lab, and associated course content for 10 different lecture courses and 7 different laboratory classes. I also developed the program course sequence of science classes for the College of Education's Secondary Science Education degree. I independently authored 4 of their lecture/lab combination courses in biology and coauthored 2 others. I cross-referenced all course documents to the Sunshine State Standards.

#### **Adjunct Instructor, Department of Natural Sciences** August 1990 – August 1997

St. Petersburg College Clearwater, Florida

While completing my PhD, I taught as an adjunct instructor 80-100% of a full-time teaching load.

#### **Assistant Instructor, Department of Zoology** August 1987 – August 1990

University of Texas at Austin Austin, Texas

As a doctoral student, I was an Assistant Instructor for Genetics, Ecology, and Evolutionary Ecology.

#### **Teaching Fellow, Department of Biology** August 1982 – August 1983

University of Utah Salt Lake City, Utah

## PROGRAM DEVELOPMENT

Associate of Science in Biotechnology (contributor)	2014
Bachelor of Science in Biology (lead)	2009
Bachelor of Secondary Science Education in Biology (lead for science curriculum portion)	2001

## DETAILS OF TEACHING:

### **33 DIFFERENT COURSES TAUGHT (AND EXTENSIVE COURSE MATERIALS DESIGNED AND WRITTEN)**

**BCH 3023** (Organic and Biological Chemistry) **BSC 1005/1005L** (Biological Science), **BSC 1930** (Biological Issues), **BSC 2010/2010L** (Biology 1 – Cells & Molecules), **BSC 2011/2011L** (Biology 2 – Ecology and Organisms), **BSC 2085/2085L** (Human Anatomy & Physiology 1), **BSC 2086/2086L** (Human Anatomy & Physiology 2), **BSC 3017** (Theory and Practice In Biological Sciences), **BSC 3052** (Conservation Biology), **BSC 3931** (Special Topics in Biology), **BSC 3932** (Scientific Communication), **BSC 4905C** (Undergraduate Research in Biology), **BSC 4931** (Senior Seminar in Biology), **BSC 4940** (Internship in Biology), **CHM 1025/1025L** (Introduction to Chemistry), **EVS 1001** (Introduction to Environmental Science), **PCB 3043/3043L** (Ecology), **PCB 3063/3063L** (Genetics), **PCB 4674** (Evolutionary Biology), **ZOO 2011/2011L** (Zoology), **ZOO 3307/3307L** (Vertebrate Zoology), **ZOO 4513/4513L** (Animal Behavior)

## DETAILS OF CURRICULUM DEVELOPMENT

Curriculum development involved identifying program goals and needs, establishing courses to meet those needs and then writing course descriptions, outlines, major learning outcomes, and syllabi for each of the courses. We also created matrices to track the concepts and skills acquired in each class and tied these to course assessments. We ensured that students would experience a variety of assessment types (different testing formats, research papers, review papers, posters, oral presentations, grant proposals, etc.) as they progressed through the program.

### **19 COURSES AUTHORED**

**BSC 2010CH (Honors Biology 1)**, **BCH 3023** (Organic and Biological Chemistry), **BSC 3052** (Conservation Biology), **BSC 4905C** (Undergraduate Research in Biology), **PCB 3043/3043L** (Ecology), **PCB 3063/3063L** (Genetics), **PCB 4674** (Evolutionary Biology), **PCB 4723/4723L** (Comparative Animal Physiology), **ZOO 3250/32507L** (Invertebrate Zoology), **ZOO 3307/3307L** (Vertebrate Zoology), **ZOO 3713/3713L** (Functional Vertebrate Anatomy), **ZOO 4513/4513L** (Animal Behavior)

### **6 COURSES COAUTHORED**

**BSC 3017** (Theory and Practice in Biological Sciences), **BSC 3931/3931L** (Special Topics in Biology), **BSC 3932** (Scientific Communication), **BSC 4931** (Senior Seminar in Biology), **BSC 4940** (Internship in Biology)

### **18 COURSES PROVIDED ADMINISTRATION, EDITING AND OVERSIGHT**

**ANS 3006** (Introduction to Animal Science), **BCH 4024** (Biochemistry), **BOT 3015/3015L** (Plant Biology), **BOT 3143C** (Field Botany), **BSC 3312C** (Marine Biology), **BSC 4422C** (Methods & Applications of Biotechnology), **BSC 4454C** (Biostatistics), **MCB 3020/3020L** (Microbiology), **PCB 3023/3023L** (Cell Biology), **PCB 4024** (Molecular Biology), **PCB 4233** (Immunology), **PCB 4253C** (Developmental Biology), **PCB 4363C** (Physiological Ecology), **ZOO 3733C** (Human Anatomy), **ZOO 4454C** (Ichthyology)

### **5 ONLINE COURSES DEVELOPED**

**BSC 2085/2085L** (Human Anatomy & Physiology 1), **BSC 3932** (Scientific Communication), **BSC 3017** (Theory and Practice In Biological Sciences), **BSC 4931** (Senior Seminar Capstone)

## **MULTIMEDIA**

Since Spring 2020, I have created over 400 teaching videos (15-50 minutes each) for Evolutionary Biology, Animal Behavior, Biology and other courses using Camtasia. I have also incorporated quizzes into some of these videos that then successfully integrate into the MyCourses Learning Management System.

## **TRAINING & CERTIFICATIONS (most recent dates)**

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<i>Quality Matters: Applying the Quality Matters Rubric</i>	2019
<i>Quality Matters: Developing an Online Course</i>	2020
<i>Quality Matters: Peer-Reviewer Course</i>	2021
ACUE: Inspiring Inquiry and Preparing Lifelong Learners	2021
Teaching an Online Course	2020
Faculty Certification for MyCourses	2019
Introduction to Ensemble Video	2020
Teaching LiveOnline at SPC	2020
Zoom Video Conferencing	2020
Using Camtasia	2020
Cultural Sensitivity and Awareness	2021

## **COMMITTEES**

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Curriculum & Instruction Committee  
Biology and Biotechnology Advisory Board  
General Education Committee  
Honor's College Committee  
Clearwater Campus Leadership Council  
Technology Committee  
Academic Integrity Committee  
Co-advisor for Beta Beta Beta National Biological Honor Society  
Academic Chair & Program Director Council

## **RESEARCH EXPERIENCE:**

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- Ongoing projects:
  - Applied animal behavior studying dog behavior in shelter and home environments. Correlating behavioral and physiological variables with various types of enrichment.
  - Ecological and behavioral studies of foraging in antlion larvae and spatial distribution of pits.
- Dissertation in Community Ecology from University of Texas:
  - The effect of grove size on abundance and composition in citrus insects. Study focused on effect of habitat fragmentation on community structure.
- Research project for Texas Nature Conservancy:
  - The habitat requirements for the black-capped vireo and golden-cheeked warbler populations near Austin, Texas.
- Graduate Research Projects at University of Utah:
  - Mathematical modeling of the evolution of univoltine and bivoltine life-history strategies in wasps
  - Effect of light intensity and guppy mating behavior
- Undergraduate Research Project at University of Florida:
  - Partial prey consumption in antlion larvae: a test of the marginal value theorem.
- Research Assistant at University of Florida for H. Jane Brockmann:
  - Field studies of nesting and mating behavior in mud-daubing wasps.

**References Available Upon Request**