

Commencement

UF | UNIVERSITY of
FLORIDA
The Foundation for The Gator Nation



DOCTORAL DEGREE
COMMENCEMENT
FALL 2013

Dr. J. Bernard Machen

Bernie Machen has served as the president of the University of Florida since January of 2004. During that time, he has strengthened the university's three core missions of teaching, research and service – while developing a fourth mission of economic development.

Thanks to his leadership, the university has improved its standing in the national higher education rankings and increased its positive influence on Florida's economy and quality of life. Today, despite the loss of about a third of its state allocation to annual budget cuts, UF is more comprehensive and dynamic than at any time in its 160-year history.

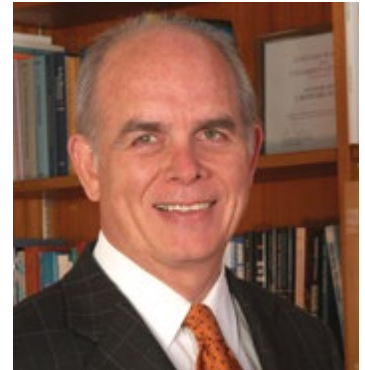
Milestones of Dr. Machen's tenure include:

- Growth in annual research funding from \$470 million in 2003-04 to \$644 million in the current fiscal year.
- More than 2.8 million square feet in new construction on campus, including nearly 600,000 square feet of new research space.
- Completion of UF's \$1.7 billion capital campaign.
- The 40-acre public private partnership known as Innovation Square and the Innovation Hub technology incubator.
- UF's first major medical research facility outside Gainesville, the UF Research and Academic Center at Lake Nona in Orlando.
- The Machen Florida Opportunity Scholars program, enabling the enrollment of more than 2,600 low-income students who are the first in their families to attend college.
- The spring-summer Innovation Academy for entrepreneurially minded undergraduates.

Dr. Machen also reorganized the UF Health Science Center, strengthening the ties between UF and the Shands family of hospitals. He emphasized clinical research through the Clinical and Translational Science Institute. Also, the UF Health Shands Cancer Hospital was completed under his watch.

Elsewhere at the university, Dr. Machen created the Bob Graham Center for Public Service and the Claude D. Pepper Older Americans Independence Center. His administration has been marked by a strong commitment to environmental causes, including a university-wide sustainability institute that is considered a model in public higher education. The UF Water Institute was created during his time at UF, and a UF nature preserve was designated as one of the first National Science Foundation-sponsored National Ecological Observatory Network sites.

Prior to his arrival at UF, Dr. Machen served for six years as president of the University of Utah, where he



is credited with expanding its health sciences program, stabilizing the university's finances and bolstering diversity.

From 1995 to 1997, Dr. Machen was provost and executive vice president for academic affairs at the University of Michigan, and from 1989 until 1995, he served as dean of Michigan's School of Dentistry. From 1983 to 1989, he was professor and associate dean at the University of North Carolina Chapel Hill's School of Dentistry.

Dr. Machen has held several prominent positions in national higher education leadership. Since 2005, he has served as a member of the National Security Higher Education Advisory Board. He chaired the Board of Directors of the National Campus Compact from 2002-2004 and served as a member of the board beginning in 1998. Additionally, beginning in 2010, he served as president of the Executive Committee of the Southeastern Conference and chair of the Southeastern Conference Academic Consortium.

In 1987, Dr. Machen was president of the American Association of Dental Schools. From 1992 to 1995, he was a member of the National Academy of Science's Institute of Medicine Committee on Educating Dentists for the Future. He has a past appointment as chief of the Department of Extension Service at the U.S. Army Institute of Dental Research.

A native of Greenwood, Mississippi, Dr. Machen grew up in St. Louis. After attending Vanderbilt University for his undergraduate studies, he earned his doctor of dental surgery degree from St. Louis University and his master of science degree in pediatric dentistry and doctorate in educational psychology from the University of Iowa.

Dr. Machen and his wife, Chris, a former neonatal intensive care nurse, live in Gainesville. They have two sons: Lee, an engineer at Intel in Portland; Michael, an attorney in Chicago; a daughter, Maggie, a veterinarian and resident in small animal cardiology at the University of Pennsylvania; and four grandchildren.

Greetings from the President



*O*n behalf of the University of Florida administration, faculty and staff, I want to extend my heartfelt congratulations to you, the doctoral graduates of the Class of 2013, and to your family and friends.

At the University of Florida, doctoral education is our spirit and our soul. It is who we are as a university, and has been since UF graduated its first doctoral students in 1934. Today's ceremony celebrates your hard work and achievement in continuing this historic legacy. You should be proud, as should all who supported and assisted you in your efforts.

Today is a day of celebration, but it also is a day of reflection on what lies ahead. Whatever path you choose, I am confident you have acquired the skills and knowledge you need to be a success. Whether you pursue a career in public service, private industry, academe, the sciences or the arts, I know you will make a difference.

It has been a privilege and a pleasure to host you during your academic career. You have learned much, and this university has benefited in turn from your presence. I hope you will recall your years here with a sense that they were happy and productive. As members of UF's distinguished alumni, and as graduates who have earned our highest degrees, you will always be cherished at the University of Florida.

Good luck and best wishes!

J. Bernard Machen

University of Florida Leadership

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J. Bernard Machen, D.D.S., M.S., Ph.D.
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Vice President - Business Affairs

DEANS OF THE UNIVERSITY

Teresa C. Balsler, Ph.D.
College of Agricultural and Life Sciences

John Kraft, Ph.D.
Warrington College of Business Administration

Boyd Robinson, D.D.S., M.Ed.
Interim, College of Dentistry

Christopher Silver, Ph.D.
College of Design, Construction and Planning

Glenn E. Good, Ph.D.
College of Education

Cammy R. Abernathy, Ph.D.
College of Engineering

Lucinda Lavelli, M.F.A.
College of Fine Arts

Henry T. Frierson, Ph.D.
Graduate School

Michael Reid, Ph.D.
College of Health and Human Performance

Nick Place, Ph.D.
IFAS Extension

John Hayes, Ph.D.
IFAS Research

David J. Sammons, Ph.D.
International Center

Diane H. McFarlin, B.S.
College of Journalism and Communications

Robert Jerry, J.D.
Fredric G. Levin College of Law

Paul J. D'Anieri, Ph.D.
College of Liberal Arts and Sciences

Michael L. Good, M.D.
College of Medicine

Anna M. McDaniel, Ph.D., R.N.
College of Nursing

Julie A. Johnson, Pharm.D.
College of Pharmacy

Michael G. Perri, Ph.D.
College of Public Health and Health Professions

James W. Lloyd, D.V.M., Ph.D.
College of Veterinary Medicine

Judith C. Russell, M.S.
University Libraries

Jen Day Shaw, Ph.D.
Dean of Students



Commencement Agenda – Friday, December 13, 2013, 4:00 p.m.

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| Presiding | J. Bernard Machen <i>President</i> |
| Processional..... | Gainesville Brass Quintet |
| National Anthem..... | Ronald Burrichter Gainesville Brass Quintet |
| Welcome and Introductions..... | J. Bernard Machen |
| Awarding of Honorary Degrees..... | J. Bernard Machen |
| Presented by..... | Joseph Glover <i>Provost and Senior Vice President for Academic Affairs</i> |
| Doctor of Technology Presented to..... | William E. Anspach Jr. <i>Burnsville, North Carolina</i> |
| Doctor of Technology Presented to..... | Norman R. Augustine <i>Potomac, Maryland</i> |
| Commencement Address | Norman R. Augustine <i>Retired Chairman and CEO, Lockheed Martin Corp.</i> |
| Presenting Candidates for Doctoral Degrees | Henry T. Frierson <i>Dean, Graduate School</i> |
| Conferring of Doctoral Degrees..... | J. Bernard Machen |
| Alma Mater | Ronald Burrichter Gainesville Brass Quintet |
| Recessional..... | Gainesville Brass Quintet |
| Postlude | Gainesville Brass Quintet |

ADDITIONAL COPIES of this commencement program are available while supplies last at the University of Florida Bookstore for a \$1 donation to the Machen Florida Opportunity Scholars program, which helps fund a UF education for low-income students who are first in their family to attend college. The bookstore is located in the UF Bookstore and Welcome Center on Museum Road and is open daily. For hours, please see the website at www.bsd.ufl.edu/bookstore. The commencement program can be ordered online with an additional charge for shipping and handling.

THE UNIVERSITY OF FLORIDA encourages you to add #UFGrad to your commencement-related conversations and images on social media. Select tweets will be featured on the video boards prior to and after the ceremony.

THE PRE-COMMENCEMENT MOVIES titled "Dream Machine" and "Voyage to Tomorrow" were created by the staff and students of the UF Digital Worlds Institute with original music by resident composer James Oliverio. For more information on these movies, which are available on DVD, please visit the institute's website at www.digitalworlds.ufl.edu.

Honorary Degree – Doctor of Technology

Dr. William E. Anspach Jr.

Dr. William E. Anspach Jr., who completed an orthopaedic residency at the University of Florida in 1965, is being recognized with an honorary doctorate degree in technology.

Dr. Anspach, a retired orthopaedic surgeon, is the founder of The Anspach Effort, one of the largest manufacturers of neurosurgical and robotic power tools worldwide. He's known for his entrepreneurship and substantial philanthropic work.

Dr. Anspach, who grew up in Chicago, earned a medical degree from Stanford University in 1962. After he graduated from Stanford, he completed an internship at Philadelphia General Hospital and started a residency at the Mayo Clinic. Nine months after his residency started, he was drafted into the U.S. Air Force.

After two years of military service at the Strategic Air Command Headquarters in Omaha, Neb., Dr. Anspach decided to apply to UF's orthopaedic residency program.

During his three-year residency at UF, Dr. Anspach spent a year doing research and studied ways to accelerate bone healing. After he completed his residency, he went into private practice in West Palm Beach and focused his research on the prevention of post-surgery wound infections.

He was then selected as a course lecturer for the American Academy of Orthopedic Surgery and founded Laminaire Corp., a company that manufactured air filtration systems and surgical suits.

In the 1970s, Dr. Anspach needed a power tool to remove a broken hip implant but found that it cost \$10,000. Dr. Anspach responded by creating his own for \$100. He was soon receiving requests from surgeons to build medical tools for them. Dr. Anspach decided to start a medical device company and founded The Anspach Effort in his garage in 1977. Today, it is one of the largest manufacturers of neurosurgical and robotic power tools.



Dr. Anspach gave more than \$1.1 million to the UF College of Medicine to establish the William F. Enneking, William E. Anspach Sr. and Orthopaedic Alumni Chair in honor of Dr. William F. Enneking, a UF professor and the founding chair of UF's orthopaedics department, and Dr. William E. Anspach Sr., his father.

He also provided a large gift to the College of Medicine to establish the Enneking-Anspach Research Center, which contains one of the most complete collections of clinical musculoskeletal pathology information.

In 2005, Dr. Anspach received UF's Distinguished Achievement Award, an award given for exceptional accomplishments and demonstrated leadership.

Honorary Degree - Doctor of Technology

Commencement Speaker

Norman R. Augustine

Norman R. Augustine is receiving an honorary doctorate degree of technology from the University of Florida.

Mr. Augustine has served as a corporate and military leader for many years, and he also has worked to advance engineering education nationwide.

He has served as a founding director of the UF Engineering Leadership Institute and the first speaker in the College of Engineering's annual leadership seminar series.

He graduated *magna cum laude* with an aeronautical engineering degree from Princeton University and joined Douglas Aircraft Co. in 1958. While at Douglas, he worked as a research engineer, program manager and chief engineer.

In 1965, Mr. Augustine began work in the Office of the Secretary of Defense as assistant director of defense research and engineering. He joined LTV Missiles and Space Co. and Martin Marietta Corp. in the 1970s.

He served as president of Lockheed Martin Corp. in 1995 and became CEO later that year. He retired as chairman and CEO of the company in 1997 and became a professor at Princeton University, where he worked until 1999.

In addition to his corporate accomplishments, Mr. Augustine has also worked as chairman of the American Red Cross, Council of the National Academy of Engineering, the Defense Science Board, the Aerospace Industries Associations and the Association of the United States Army.

He's also served as assistant secretary, under secretary and acting secretary of the U.S. Army, and president of the Boy Scouts of America and American Institute of Aeronautics and Astronautics.

He is a former member of the boards of directors of ConocoPhillips, Black & Decker, Proctor & Gamble and Lockheed Martin. He is a regent of the University System of Maryland, trustee emeritus of



Johns Hopkins University and a former member of the Board of Trustees of Princeton and Michigan Institute of Technology.

He has been a member of the advisory boards of the departments of Homeland Security, Energy, Defense, Commerce, Transportation, and Health & Human Services, as well as NASA, Congress and the White House. He served for 16 years on the President's Council of Advisors on Science and Technology. He is a fellow of the National Academy of Arts and Sciences and the Explorers Club.

Mr. Augustine led the 2005 National Academics commission that produced a landmark report, "Rising Above the Gathering Storm: Energizing and Employing America for a Brighter Economic Future."

His advice is valued by the government, academics and corporate America, and he has helped shape the country's aerospace industry through his numerous achievements.

He holds 30 honorary degrees and was selected by Who's Who in America and the Library of Congress as one of Fifty Great Americans.

UF Graduate School

The reputation of a research university is, in large part, measured by the excellence of its graduate faculty and graduate students. The University of Florida's graduate faculty and graduate students help to push the boundaries of research, develop the technologies of the future, improve the health of our citizenry, reshape our social and economic culture, expand scholarship, and create beauty in many forms.



Doctor of Philosophy

The Doctor of Philosophy degree was established in the late 19th century as the highest earned degree in American graduate schools. This degree program, which stresses competence in research, awards the credential most commonly held by college professors and researchers. Although requirements of the doctorate vary from one institution to another, certain prerequisites are typical: coursework, a qualifying examination, an approved dissertation and a final examination. Doctoral students work closely with a major professor who serves as an advisor, mentor, critic, confidant and promoter.

Doctor of Education

The Doctor of Education degree was introduced at the University of Florida in the mid-1940s. This degree is conferred in recognition of the development of sound scholarship in professional education and closely related fields, and demonstrated ability to apply that knowledge as an administrator, supervisor or teacher. Requirements vary by discipline but generally include coursework, a qualifying examination, the completion of a dissertation and final examinations. Students are mentored by a major professor and supported by a supervisory committee comprising members of the graduate faculty.

Doctor of Audiology

The Doctor of Audiology degree was first awarded to students at the University of Florida in 2000. This degree is the highest university award given in this field in recognition of completion of academic preparation for the clinical practice of audiology. The degree requires four years of study beyond the bachelor's degree, including academic coursework, supervised clinical experiences, yearly academic and clinical evaluation by the faculty, and a final examination.

Doctor of Plant Medicine

The Doctor of Plant Medicine degree was established at the University of Florida in 1999 to provide all segments of agriculture with rapid, accurate and scientifically sound diagnoses and management strategies for all types of plant health problems. This multidisciplinary program consists of courses and practical training in all relevant departments. Students are trained in the science, practice and business of the profession of plant medicine and complete coursework and written and oral comprehensive examinations.

Doctor of Physical Therapy

The Doctor of Physical Therapy degree is a professional doctoral program that prepares graduates to become entry-level physical therapists and was established at the University of Florida in 2005. The degree requires three years of coursework and clinical practicum beyond the bachelor's degree. Completion of the program enables graduates to sit for the licensure examination to practice physical therapy.

GRADUATE SCHOOL

HENRY T. FRIERSON, ASSOCIATE VICE PRESIDENT AND DEAN OF THE GRADUATE SCHOOL

DOCTOR OF PHILOSOPHY

Ayman A. Abdellatif, Bachelor of Science in Chemical Engineering, 2002, Master of Engineering, 2008, University of Florida

Major: *Agricultural and Biological Engineering*

Dissertation: Performance Characterization of Dynamic Accumulation Method for Measuring the Oxygen Transmission Rate of Polymer Films Using Fluorescence Oxygen Detection

Dissertation Chair: B. A. Welt

Yaakov Jack Abudaram, Bachelor of Science in Mechanical Engineering, 2006, Bachelor of Science in Aerospace Engineering, 2006, Master of Science, 2009, University of Florida

Major: *Aerospace Engineering*

Dissertation: Silicone Rubber Membrane Micro Air Vehicle Wings: Controlling Pre-Tension, A Novel Method to Attach Membranes, and Experimental Characterization

Dissertation Chair: P. Ifju

Melanie Moore Acosta, Bachelor of Science in Public Relations, 2002, Master of Education, 2009, University of Florida

Major: *Curriculum and Instruction*

Dissertation: That's Not Work That's Who We Are as Teachers: A Culture-Centered Study with Accomplished Black Educators on Pedagogical Excellence

Dissertation Chair: D. D. Ross

Yong-Mo Ahn, Bachelor of Arts, 2003, Master of Arts in Chemistry, 2004, Wesleyan University—Connecticut

Major: *Chemistry*

Dissertation: Inhibition and Functional Characterization of Glutamine-Dependent Asparagine Synthetase

Dissertation Chair: J. D. Stewart

Meryl Joseph Alappattu, Bachelor of Science in Kinesiology in Exercise Science, 2005, Indiana University at Bloomington; Doctor of Physical Therapy, 2008, University of Florida

Major: *Rehabilitation Science*

Dissertation: Peripheral and Central Factors in Female Pelvic Pain

Dissertation Chair: M. D. Bishop

Phillip Daniel Alderman, Bachelor of Arts *summa cum laude*, 2006, Master of Science, 2008, University of Florida

Major: *Agronomy*

Dissertation: Improving Soil Fertility Management in Northern Ghana: An Integrated Modeling Approach

Dissertation Chair: K. J. Boote

Dissertation Co-chair: L. E. Sollenberger

Turkiyah Hajeej Alenazy, Bachelor of Interior Architecture, 2000, King Faisal University—Saudi Arabia; Master of Fine Arts, 2007, Florida State University

Major: *Design, Construction, and Planning*

Dissertation: Changing Gender Roles and the Interior Layout of Houses in Kuwait: An Exploratory Multi-Method Case Study

Dissertation Chair: M. B. Portillo

Majid Mohammed Alhumaidi, Bachelor in Translation, 2001, Master of Arts in Applied Linguistics, 2008, King Saud University—Saudi Arabia

Major: *Linguistics*

Dissertation: A Critical Discourse Analysis of Al-Ahram and Aljazeera's Online Coverage of Egypt's 2011 Revolution

Dissertation Chair: D. Boxer

Dissertation Co-chair: F. McLaughlin

- Mohsen Ali, Master of Computer Science, 2003, University of the Punjab—Pakistan; Master of Science, 2006, Lahore University of Management Sciences—Pakistan
 Major: *Computer Engineering*
 Dissertation: Deconstructive Learning
 Dissertation Chair: J. Ho
- Said Humaid Al-Jahdhami, Bachelor of Education, 2003, Sultan Qaboos University—Oman; Master of Arts in Applied Language Studies, 2006, Carleton University—Canada
 Major: *Linguistics*
 Dissertation: Kumzari of Oman: A Grammatical Analysis
 Dissertation Chair: E. H. Potsdam
- Ahmed Abed Ali Al-Jumaili, Bachelor of Science in Agriculture, 1992, Master of Science in Agriculture, 2000, University of Baghdad—Iraq; Master of Engineering, 2012, University of Florida
 Major: *Agricultural and Biological Engineering*
 Dissertation: Variation of Spray Deposition Within Citrus Groves Due to Wind Conditions
 Dissertation Chair: M. Salyani
- Bryan Daniel Allison, Bachelor of Science in Engineering in Mechanical Engineering *summa cum laude*, 2008, Master of Science in Mechanical Engineering, 2010, University of Alabama at Huntsville
 Major: *Mechanical Engineering*
 Dissertation: Evolution of Mechanical Properties of M50 Bearing Steel Due to Rolling Contact Fatigue
 Dissertation Chair: G. Subhash
 Dissertation Co-chair: N. K. Arakere
- Naji Mordi Naji Al-Sawiyan Al-Dosary, Bachelor of Agricultural Science in Agricultural Engineering, 1993, Master of Science in Agricultural Engineering, 2005, King Saud University—Saudi Arabia; Master of Engineering, 2011, University of Florida
 Major: *Agricultural and Biological Engineering*
 Dissertation: Development of a Self-Propelled Citrus Canopy Shaker for Harvesting Semi-Dwarfed High Density Plantings
 Dissertation Chair: T. F. Burks
- Supraja Anand, Master of Science, 2007, All India Institute of Speech and Hearing
 Major: *Communication Sciences and Disorders*
 Dissertation: Effect of Task Complexity on Acoustic Characteristics of Parkinsonian Speech
 Dissertation Chair: J. C. Rosenbek
 Dissertation Co-chair: R. Shrivastav
- Matthew John Andrus, Bachelor of Science, 2004, Siena College—New York
 Major: *Chemistry*
 Dissertation: Structural and Electronic Investigations of Prussian Blue Analogue Heterostructures: Elucidating the Effects of Lattice Coupling on the Phase Behavior of Cobalt Hexacyanoferrates
 Dissertation Chair: D. R. Talham
- Paola Arboleda, Titulo Comunicadora Social Periodista, 2002, Universidad Pontificia Bolivariana—Colombia; Master of Arts, 2007, University of British Columbia—Canada
 Major: *Romance Languages—Spanish*
 Dissertation: Homotramas: Actos de Resistencia, Actos de Amor. Construccion de Subjetividades LGTB en Narraciones Del Yo Latinoamericanas
 Dissertation Chair: E. Barradas
- Stephen Hugo Arce, Bachelor of Science, 2005, Master of Engineering, 2008, University of Florida
 Major: *Chemical Engineering*
 Dissertation: Cell Shape
 Dissertation Chair: Y. Tseng
- Serhat Ascı, Bachelor of Science, 2000, Middle East Technical University—Turkey; Yuksek Lisans Diploması, 2008, Akdeniz University—Turkey
 Major: *Food and Resource Economics*
 Dissertation: Managing Risk and Uncertainty in Agricultural Production
 Dissertation Chair: J. J. Vansickle
 Dissertation Co-chair: T. Borisova

- Samuel N. Aso, Bachelor of Science in Agricultural Engineering, 1981, Master of Science, 1983,
University of Tennessee at Knoxville
Major: *Agricultural and Biological Engineering*
Dissertation: Synergistic Enzymatic Hydrolysis of Cassava Starch and Anaerobic Digestion of Cassava Waste
Dissertation Chair: A. A. Teixeira
- Aditya Asokan, Bachelor of Technology, 2007, Sri Ramaswamy Memorial University—India; Master of Science, 2010,
University of Florida
Major: *Biomedical Engineering*
Dissertation: Lipopolysaccharide Induced Neuroinflammation and Its Effect on Neural Stem and Progenitor Cell Behavior
in the Dentate Gyrus of Adult Mice
Dissertation Chair: B. K. Ormerod
- Pascale Atallah, Diplome d'Ingenieur, 2007, Ecole Nationale Supérieure de Chimie et de Physique de Bordeaux—France
Major: *Chemistry*
Dissertation: Precision Polyolefin Additives for Extrusion Process
Dissertation Chair: K. B. Wagener
- Zenta E. Auyong, Bachelor of Arts in Sociology, 2002, Stetson University—Florida, Master of Arts, 2004, University of Florida
Major: *Criminology, Law, and Society*
Dissertation: The Comparative Utility of Mainstream Criminological Theories in Explaining Offender Life Histories
Dissertation Chair: C. E. Frazier
Dissertation Co-chair: L. M. Lanza-Kaduce
- Laura M. Avila Segura, Titulo de Ingeniero Agronomo, 2001, Escuela de Agricultura de la Region Tropical Humeda—
Costa Rica; Master of Science, 2006, University of Florida
Major: *Interdisciplinary Ecology*
Dissertation: Stingless Bee Foraging Ecology in Tropical Agricultural Landscapes
Dissertation Chair: H. G. Hall
- Hyunho Baek, Bachelor of Engineering, 2004, Andong National University—South Korea; Master of Science, 2010,
University of Florida
Major: *Electrical and Computer Engineering*
Dissertation: Signal and Power Integrity of High-Speed IC in Chip-Package System
Dissertation Chair: W. R. Eisenstadt
- Rachel Marion Bailey, Bachelor of Science in Biology, 2003, Rensselaer Polytechnic Institute—New York
Major: *Medical Sciences—Neuroscience*
Dissertation: Modulators of Tauopathy in the Rtg4510 Mouse Model
Dissertation Chair: J. M. Lewis
- Santanu Bakshi, Master of Science, 2007, University of Calcutta—India
Major: *Soil and Water Science*
Dissertation: Immobilization of Dissolved and Particulate Copper Using Lime/Biochar and Characterization of
Nanoparticles in Soils
Dissertation Chair: Z. He
Dissertation Co-chair: W. G. Harris
- Claudio Balderacchi, Laurea, 2003, Universita Commerciale Luigi Bocconi—Italy; Master of International Affairs, 2004,
Institute for International Political Studies—Italy; Master of Arts, 2010, University of Florida
Major: *Political Science*
Dissertation: The Radical Left and Democracy in Latin America: The Role of Participatory Mechanisms in Bolivia,
Ecuador, and Venezuela
Dissertation Chair: P. J. Williams
- Cristina Banuelos, Bachelor of Science in General Studies, 1998, Cornell University—New York; Master of Science in Biology,
2006, University of Texas
Major: *Medical Sciences—Neuroscience*
Dissertation: Gabergic Systems and Age-Related Cognitive Decline
Dissertation Chair: J. L. Bizon

- Brian Robert Barber, Bachelor of Arts *cum laude*, 1999, Bachelor of Arts *cum laude*, 1999, Master of Education, 2006,
University of Florida
Major: *Special Education*
Dissertation: Contributions of Hot and Cool Executive Functions for Predicting and Ameliorating Reactive and Proactive
Aggression in Elementary Students
Dissertation Chair: S. W. Smith
- David L. Barber, Bachelor of Science in Agriculture, 1989, Master of Science, 1997, University of Florida
Major: *Food and Resource Economics*
Dissertation: Using the National Health and Nutrition Examination Study (NHANES) Survey Data to Examine the
Relationship Between 100% Fruit Juice and the U.S. Obesity Problem
Dissertation Chair: T. H. Spreen
- Andrew Buhl Barbour, Bachelor of Science in Biology, 2007, Duke University—North Carolina
Major: *Fisheries and Aquatic Sciences*
Dissertation: Processes Affecting Nursery Habitat Value of an Estuarine-Dependent Fish
Dissertation Chair: D. C. Behringer
Dissertation Co-chair: K. Lorenzen
- Sarah Jane Barilovits, Bachelor of Science *summa cum laude*, 2008, University of Florida
Major: *Medical Sciences—Biochemistry and Molecular Biology*
Dissertation: Transcriptional Regulation of Forkhead Box O3 (FoxO3) and Manganese Superoxide Dismutase (MnSOD):
In Vivo Applications
Dissertation Chair: H. S. Nick
- Leslie Jeanne Barnes, Bachelor of Science in Physical Therapy *magna cum laude*, 1991, Saint Louis University—Missouri;
Master of Science in Physical Therapy, 1996, University of North Carolina at Chapel Hill
Major: *Rehabilitation Science*
Dissertation: Running Kinematics of the Thoracolumbar Spine Across the Age Spectrum
Dissertation Chair: M. Horodyski
- Emily Anne Bell, Bachelor of Music, 1999, Oberlin College—Ohio; Master of Arts, 2001, Florida State University
Major: *Music*
Dissertation: Expressionism in Italian Music and Art in the Nineteenth and Twentieth Centuries
Dissertation Chair: D. Z. Kushner
- Heather L. Bell, Bachelor of Arts, 1997, University of Victoria—Canada; Master of Arts, 2008, Dalhousie University—Canada
Major: *Health and Human Performance*
Minor: *Sociology*
Dissertation: Paddling Together: Women's Team Sport Experiences and Relationships
Dissertation Chair: H. J. Gibson
- Sulley K. Ben-Mahmoud, Bachelor of Science, 2005, Master of Philosophy, 2009, University of Ghana
Major: *Entomology and Nematology*
Dissertation: Transgenic Control of the Citrus Weevil, *Diaprepes abbreviatus*: A Three-Pronged Approach Targeting
Digestion, Gut Physiology, and Gene Expression
Dissertation Chair: R. D. Cave
Dissertation Co-chair: R. G. Shatters
- Kara Lynne Berke, Bachelor of Science in Physics, 2009, Carnegie Mellon University—Pennsylvania
Major: *Physics*
Dissertation: Graphene Growth, Doping, and Characterization for Device Applications
Dissertation Chair: A. F. Hebard
- Jennifer L. Bernatis, Bachelor of Science in Physical Education, 1994, Master of Science in Health Physical Education,
1996, Fort Hays State University—Kansas; Master of Science in Biological Sciences, 2005,
University of Nevada at Las Vegas
Major: *Interdisciplinary Ecology*
Dissertation: Morphology, Ecophysiology, and Impacts of Exotic *Pomacea* in Florida
Dissertation Chair: S. A. Johnson
Dissertation Co-chair: M. Brenner

- Shruthi S. Bharadwaj, Bachelor of Science in Bioengineering, 2009, Master of Science in Bioengineering, 2010, University of Illinois at Chicago
 Major: *Biomedical Engineering*
 Dissertation: Mechanical Markers of Colon Cancer: A Diagnostic Model
 Dissertation Chair: R. Tran-Son-Tay
 Dissertation Co-chair: S. Glover
- Ankush Bhatia, Bachelor of Technology in Mechanical Engineering, 2006, Indian Institute of Technology at Delhi
 Major: *Mechanical Engineering*
 Dissertation: Single Framework Solution for Hypersonic and Thermal Ablation Problems Using Discontinuous Galerkin Finite Element Methods
 Dissertation Chair: S. Roy
- Bridget M. Bihm-Manuel, Bachelor of Arts *magna cum laude*, 2002, University of Louisiana at Lafayette; Master of Arts, 2005, University of Florida
 Major: *History*
 Dissertation: Human Waste-Matters: Waste-Water, Public Health, and the Natural Environment in Twentieth-Century Florida
 Dissertation Chair: J. E. Davis
- Crystal Dawn Bishop, Bachelor of Science, 2004, University of Wyoming; Master of Education, 2007, Vanderbilt University—Tennessee
 Major: *Special Education*
 Minor: *Research and Evaluation Methodology*
 Dissertation: Using the Early Childhood Longitudinal Study Birth Cohort Data to Explore Measurement Invariance for the Early Childhood Environment Rating Scale-Revised and the Arnett Caregiver Interaction Scale
 Dissertation Chair: P. A. Snyder
- John Harris Boman IV, Bachelor of Arts in History, 2007, Ohio University; Master of Arts, 2010, University of Florida
 Major: *Criminology, Law, and Society*
 Dissertation: The intersection of Friendships, Networks, and Crime: A Developmental Extension and Test of Sutherland's Differential Association Theory
 Dissertation Chair: M. D. Krohn
 Dissertation Co-chair: C. Gibson
- Jason S. Broach, Bachelor of Science in Biology *summa cum laude*, 2007, Erskine College—South Carolina; Master of Science, 2009, Auburn University—Alabama
 Major: *Fisheries and Aquatic Sciences*
 Dissertation: Spawning, Egg Incubation, and Larval Culture of Two Marine Fish, Pinfish, *Lagodon Rhomboides*, and Pigfish, *Orthopristis Chrysoptera*
 Dissertation Chair: C. Ohs
 Dissertation Co-chair: D. Petty
- Erica K. Brockmeier, Bachelor of Science, 2009, University of Nebraska at Omaha
 Major: *Veterinary Medical Sciences*
 Dissertation: Effects of Androgen and Paper Mill Effluent Exposure on Eastern Mosquitofish (*Gambusia Holbrooki*) Reproductive Health and Gene Expression Patterns
 Dissertation Chair: N. D. Denslow
- Gordon Hitchings Brown, Bachelor of Science *cum laude*, 2003, State University of New York College at Brockport; Master of Science, 2006, University of Florida
 Major: *Environmental Engineering Sciences*
 Dissertation: Aquitard Contaminant Storage and Flux Resulting From DNAPL Source Zone Dissolution and Remediation: Considering Diffusion, Leakage, and Decay
 Dissertation Chair: M. D. Annable
- Erin Brigid Caitlin Bruce, Bachelor of Science in Biological Sciences, 2007, Louisiana State University and A&M College
 Major: *Pharmaceutical Sciences—Pharmacodynamics*
 Dissertation: Novel Roles for Angiotensin-(1-7) and Angiotensin Type 2 Receptor Activation in the Treatment of Cardiovascular Disease
 Dissertation Chair: M. J. Katovich

- Teresa A. Bryan, Bachelor of Science *cum laude*, 2000, Master of Science, 2005, University of Florida
Major: *Zoology*
Dissertation: The Ontogeny of Genital Development in the American Alligator (*Alligator Mississippiensis*), a Vertebrate Lacking Sex Chromosomes: University of Florida
Dissertation Chair: L. J. Guillette
- Kelly A. Burks-Copes, Bachelor of Science in Biology *summa cum laude*, 1991, University of New Mexico; Master of Science in Biology, 1994, New Mexico State University
Major: *Interdisciplinary Ecology*
Dissertation: Finding Integrated Solutions to Wicked Environmental Challenges: Ecosystem-Based Management of Cottonwood Communities on the Missouri River
Dissertation Chair: G. Kiker
- Sanal V. Buvaev, Bachelor of Applied Mathematics and Physics, 2007, Moscow Institute of Physics and Technology—Russia; Master of Science, 2011, University of Florida
Major: *Physics*
Dissertation: Magnetotransport Study of Disordered Thin Films
Dissertation Chair: A. F. Hebard
- Dawn Renee Calibeo, Bachelor of Science, 1999, University of Florida; Master of Science in Entomology, 2002, North Carolina State University
Major: *Entomology and Nematology*
Dissertation: An Integrated Pest Management Strategy for *Nylanderia Fulva* in Florida
Dissertation Chair: F. M. Oi
- Kristine L. Callis-Duehl, Bachelor of Science in Botany, 2002, Master of Science in Botany, 2005, North Carolina State University
Major: *Botany*
Dissertation: Herbivory Rates Across a Latitudinal Gradient Using Silica as a Model Physical Plant Defense
Dissertation Chair: D. J. Levey
- Tana Bleser Carson, Bachelor of Science *magna cum laude*, 2007, Master of Science, 2010, Master of Occupational Therapy, 2011, University of Florida
Major: *Psychology*
Dissertation: Vestibulo-Ocular Reflex Function in Autism Spectrum Disorders
Dissertation Chair: M. H. Lewis
- Carol Lynn Chaffee, Bachelor of Arts, 1989, University of California at Berkeley; Master of Arts, 1990, University of Southern California; Bachelor of Science in Biological Sciences, 2007, San Jose State University—California
Major: *Zoology*
Dissertation: Challenging the Paradigm of Monarch Migrations: Behavioral Complexity and Isotopic Variation of the Eastern North American Population of *Danaus Plexippus*
Dissertation Chair: M. L. Wayne
- David D. Chagaris Jr., Bachelor of Science in Biology, 2002, Master of Science in Biology, 2006, East Carolina University—North Carolina
Major: *Fisheries and Aquatic Sciences*
Dissertation: Ecosystem-Based Evaluation of Fishery Policies and Trade-offs on the West Florida Shelf
Dissertation Chair: M. S. Allen
- Rakesh Chalasani, Bachelor of Technology in Electronics and Communication Engineering, 2008, Visvesvaraya National Institute of Technology—India; Master of Science, 2010, University of Florida
Major: *Electrical and Computer Engineering*
Dissertation: A Hierarchical Dynamic Model for Object Recognition
Dissertation Chair: J. C. Principe
- Obulapathi Nayudu Challa, Bachelor of Technology, 2007, Dhirubhai Ambani Institute of Information and Communication Technology—India; Master of Science, 2010, University of Florida
Major: *Electrical and Computer Engineering*
Dissertation: Cubesat Cloud: A Framework for Distributed Storage, Processing, and Communication of Remote Sensing Data on Cubesat Clusters
Dissertation Chair: J. Y. McNair

- Alan Hale Chambers, Bachelor of Science in Psychology, 2007, Brigham Young University—Utah;
 Master of Science in Plant Pathology, 2010, Cornell University—New York
 Major: *Horticultural Science—Horticultural Sciences*
 Dissertation: Strawberry Flavor: From Genomics to Practical Applications
 Dissertation Chair: K. M. Folta
 Dissertation Co-chair: V. Whitaker
- Ya-chiao Chang, Bachelor of Science in Engineering, 2008, National Taiwan University
 Major: *Chemical Engineering*
 Dissertation: Mathematical Models for Under-Deposit Corrosion in Aerated and De-Aerated Solutions
 Dissertation Chair: M. E. Orazem
- William Herbert Chapman, Bachelor of Science in Computer Engineering *summa cum laude*, 2009, University of Florida
 Major: *Computer Engineering*
 Dissertation: Multiresolution SAR Image Formation and Change Detection on High-Performance Heterogeneous Architectures
 Dissertation Chair: S. Ranka
 Dissertation Co-chair: S. Sahni
- Enmanuel Antonio Chavarria, Bachelor of Science in Health Education, 2009, Master of Science, 2010, University of Florida
 Major: *Health and Human Performance*
 Dissertation: Health Information Seeking on the Internet by College Men in Latino Fraternities
 Dissertation Chair: E. H. Chaney
- Nikita Elizabeth Chavarria, Bachelor of Science *cum laude*, 2009, University of Florida
 Major: *Microbiology and Cell Science*
 Dissertation: Archaeal E1- and Ubiquitin-Like Proteins: Regulation and Roles in Sulfur Mobilization and Protein Modification in *Haloferax Volcanii*
 Dissertation Chair: J. A. Maupin
- Dario Javier Chavez Velasquez, Titulo de Ingeniero Agronomo, 2005, Escuela Agricola Panamericana—Honduras;
 Master of Science, 2008, University of Florida
 Major: *Horticultural Science*
 Dissertation: The North American Plums (*Prunus Spp.*) and Their Use as Germplasm Resources: From Population to Phylogenetic Studies—A Breeder's Perspective
 Dissertation Chair: J. Chaparro
- Dan Chen, Bachelor of Engineering, 2006, Beijing Forestry University—China; Master of Engineering, 2009, Tongji University—China
 Major: *Design, Construction, and Planning*
 Minor: *Real Estate*
 Dissertation: Impact of Public Open Space on Single Family Residential Property Values in Alachua County, Florida
 Dissertation Chair: M. H. Carr
 Dissertation Co-chair: P. D. Zwick
- Mong-Jen Chen, Bachelor of Science, 2002, National Cheng Kung University—Taiwan; Master of Science, 2006, Georgetown University—District of Columbia
 Major: *Pharmaceutical Sciences—Pharmacy*
 Dissertation: Development of Novel Stem Cell Approaches for Autologous Liver Regeneration
 Dissertation Chair: S. Song
- Jialong Cheng, Bachelor of Engineering in Computer Science and Technology, 2008, University of Science and Technology of China
 Major: *Computer Engineering*
 Dissertation: Towards Combinatorial Characterizations and Algorithms for Bar-and-Joint Independence and Rigidity in 3-D and Higher Dimensions
 Dissertation Chair: M. Sitharam
- Xiaoyu Cheng, Bachelor of Engineering, 2006, Hebei University of Science and Technology—China;
 Master of Science in Electrical Engineering, 2008, State University of New York at Buffalo
 Major: *Electrical and Computer Engineering*
 Dissertation: Wireless Biomedical Telemetry Systems Based on Flexible Metamaterial Circuits and Advanced RF Architectures
 Dissertation Chair: Y. Yoon

- Yu-Ting Cheng, Bachelor of Science, 2003, Master of Science, 2005, National Sun Yat-Sen University—Taiwan
 Major: *Materials Science and Engineering*
 Dissertation: Reactive Variable Charge Potential Development and Atomistic Simulations of Surface and Heterogeneous Interfacial Interactions
 Dissertation Chair: S. B. Sinnott
- Raul Andres Chinga Alvarado, Bachelor of Science in Electrical Engineering *cum laude*, 2008, Master of Science, 2011, University of Florida
 Major: *Electrical and Computer Engineering*
 Dissertation: Dielectric Barrier Discharge (DBD) Plasma Sterilizer System Using RF Switch-Mode Power Amplifiers
 Dissertation Chair: J. Lin
- Kwansun Cho, Bachelor of Engineering, 1996, Kwandong University—South Korea; Master of Engineering in Electrical and Computer Engineering, 1999, Yonsei University—South Korea; Master of Science, 2003, University of Florida
 Major: *Electrical and Computer Engineering*
 Minor: *Communication Sciences and Disorders*
 Dissertation: Start4k: A Computer Assisted Pronunciation Training System
 Dissertation Chair: J. G. Harris
- Kinga Chojnacka, Dypłom Magistra, 2008, Uniwersytet im Adama Mickiewicza in Pozna—Poland
 Major: *Chemistry*
 Dissertation: Synthesis of Nicotinic Receptor Ligands and Strigolactones
 Dissertation Chair: N. A. Horenstein
- Heejun Chung, Bachelor of Engineering, 2004, Master of Engineering, 2006, Kyung Hee University—South Korea
 Major: *Nuclear Engineering Sciences*
 Dissertation: A Method for Improved Delayed Neutron Data of Group Abundances
 Dissertation Chair: K. Jordan
- Hyung-chul Chung, Bachelor of Engineering, 2006, Hongik University—South Korea; Master of Engineering in Urban Planning and Development Management, 2009, Hanyang University—South Korea
 Major: *Design, Construction, and Planning*
 Dissertation: Stain or Sustain? Equitable Neighborhood Revitalization of Distressed Communities by the Low Income Housing Tax Credit Program, and the Housing Choice Voucher Program
 Dissertation Chair: C. Silver
 Dissertation Co-chair: K. E. Larsen
- Sarah Denise Cochran, Bachelor of Science in Animal Science, 2006, University of Missouri at Columbia; Master of Science in Animal Science, 2008, South Dakota State University
 Major: *Animal Molecular and Cellular Biology*
 Dissertation: Identification of Genetic Markers for *In Vivo* and *In Vitro* Fertility in Dairy Cattle
 Dissertation Chair: P. J. Hansen
- Kerry Rae Creasy, Bachelor of Arts *cum laude*, 2007, Bachelor of Science in Nursing, 2008, Master of Science in Nursing, 2009, University of Florida
 Major: *Nursing Sciences*
 Minor: *Mental Health Counseling*
 Dissertation: An Exploration of Family-Centered Care and Engaged Interactions to Promote Preparedness for Stroke Family Caregivers
 Dissertation Chair: B. J. Lutz
- Avery L. Culbertson, Bachelor of Science in Agriculture, 2000, Master of Arts in Communication, 2004, New Mexico State University
 Major: *Agricultural Education and Communication*
 Dissertation: The Mechanics of Reflection: Methods and Outcomes of Reflection in an Agricultural Leadership Program
 Dissertation Chair: H. S. Carter

- Timothy J. Davis, Bachelor of Science in Nuclear Science, 1998, Master of Science, 2000, University of Wisconsin at Madison
 Major: *Entomology and Nematology*
 Dissertation: Oviposition Strategies of *Aedes Albopictus* (Skuse) (Diptera: Culicidae): Analyzing Behavioral Patterns for Surveillance Techniques and Control Tactics
 Dissertation Chair: P. E. Kaufman
 Dissertation Co-chair: D. L. Kline
- André D. De-Stefani Aguiar, Titulo de Zootecnista, 2007, Faculdades Associadas de Uberaba—Brazil; Master of Science, 2010, Texas A&M University at College Station
 Major: *Agronomy*
 Dissertation: Grazing Management of Warm-Season Grass Species in South Florida
 Dissertation Chair: J. M. Vendramini
 Dissertation Co-chair: L. E. Sollenberger
- Craig Robert Dixon, Bachelor of Science in Civil Engineering, 2008, Master of Engineering, 2013, University of Florida
 Major: *Civil Engineering*
 Dissertation: The Wind Resistance of Asphalt Roofing Shingles
 Dissertation Chair: D. O. Prevatt
 Dissertation Co-chair: F. Masters
- Benjamin G. Doughan, Bachelor of Arts, 2004, Master of Science, 2008, University of Northern Iowa
 Major: *Plant Pathology*
 Dissertation: Characterization of the Mat Locus Genes in the Fungal Plant Pathogen *Sclerotinia sclerotiorum* (Lib.) de Bary
 Dissertation Chair: J. A. Rollins
- Phillip Michael Draa, Bachelor of Science in Materials Science and Engineering, 2008, Georgia Institute of Technology; Master of Science, 2010, University of Florida
 Major: *Materials Science and Engineering*
 Dissertation: The Heat Treatment and Evaluation of Single Crystal Nickel Base Superalloys for Industrial Gas Turbine Applications
 Dissertation Chair: G. E. Fuchs
- Derek D. Drayer, Bachelor of Arts in Economics, 2007, Lake Forest College—Illinois; Master of Arts, 2010, University of Florida
 Major: *Economics*
 Dissertation: Essays on the Economics of Institutions: An Analysis of Major League Baseball and Tariffs
 Dissertation Chair: J. H. Hamilton
- Lauren M. Drouin, Bachelor of Science, 2006, University of Florida
 Major: *Medical Sciences—Biochemistry and Molecular Biology*
 Dissertation: Characterization of AAV2 Genome Packaging
 Dissertation Chair: M. Agbandje-McKenna
 Dissertation Co-chair: N. Muzyczka
- Patrick J. Dube, Bachelor of Science in Agricultural and Biological Engineering, 2009, University of Florida
 Major: *Agricultural and Biological Engineering*
 Minor: *Environmental Engineering Sciences*
 Dissertation: Optimization of the Saccharification of Spent Sugar Beet Pulp Using Extracellular Enzymes from Mixed Culture Anaerobic Fermentation
 Dissertation Chair: P. C. Pullammanappallil
- Geoffrey Richard David DuChemin, Bachelor of Arts in Anthropology, 2002, University of North Florida; Master of Arts, 2005, University of Florida
 Major: *Anthropology*
 Dissertation: Animal Use and Community in Pre-Columbian Puerto Rico: Zooarchaeology of the Rio Portugues
 Dissertation Chair: S. D. Defrance
- Amanda L. Eiden, Bachelor of Science in Biology *cum laude*, 2005, University of Wisconsin at Stevens Point; Master of Science, 2009, University of South Florida
 Major: *Entomology and Nematology*
 Dissertation: Determining *Acaricide* Resistance Levels and Mechanisms in *Rhipicephalus sanguineus* (Latreille) to Chemicals Used to Treat Domestic Animals and Residential Environments
 Dissertation Chair: P. E. Kaufman
 Dissertation Co-chair: F. M. Oi

Timothy Zane Elmore, Bachelor of Science in Mechanical Engineering, 2008, Bachelor of Science in Aerospace Engineering, 2008, University of Florida

Major: *Mechanical Engineering*

Dissertation: Design, Characterization, and Controls for a Surgeon-Interactive Robotic Imaging System

Dissertation Chair: S. A. Banks

Dissertation Co-chair: B. J. Fregly

† Joan Peterson Emerson, Bachelor of Arts, 1965, Cornell University—New York; Master of Arts, 1969, University of Wisconsin; Specialist in Education, 1992, University of Florida

Major: *Curriculum and Instruction*

Dissertation: Cultural Accommodation of Women From Other Countries Into American Society: Explorations in Identity, Gender, and Language Acquisition

Dissertation Chair: T. Dana

Tara Faidhalla, Bachelor of Science in Agriculture, 2001, Master of Science in Agriculture, 2001, University of Baghdad—Iraq

Major: *Food Science and Human Nutrition*

Dissertation: The Application of Non-Thermal and Thermal Treatments to Reduce the Allergens of Soybean

Dissertation Chair: W. Yang

Elizabeth Reimiller Felter, Bachelor of Science in Agriculture, 1981, Ohio State University; Master of Agriculture, 1984, University of Florida

Major: *Agricultural Education and Communication*

Dissertation: An Examination of Community Based Social Marketing Strategies to Increase Water Conservation Practices by Homeowners with Automated Irrigation Systems in Central Florida

Dissertation Chair: T. A. Irani

Wei Feng, Bachelor of Natural Science, 2006, University of Science and Technology of China; Master of Science, 2013, University of Florida

Major: *Mathematics*

Dissertation: Charge Transport Analysis for Lightning

Dissertation Chair: W. W. Hager

Chessy M. Fernandez, Bachelor of Biomedical Engineering, 2000, Catholic University of America—District of Columbia; Master of Engineering, 2003, University of Florida

Major: *Biomedical Engineering*

Dissertation: Development of an Efficient Fluid Structure Interaction Solver for Applications to the Vascular System

Dissertation Chair: R. Tran-Son-Tay

Maria Ida Fionda, Bachelor of Arts, 2003, Concordia University—Canada; Master of Arts, 2008, University of Florida

Major: *Romance Languages—Spanish*

Dissertation: The Effects of Cognitive Abilities and Vocabulary Size on L2 Spanish Clitic Processing

Dissertation Chair: G. Lord

Dissertation Co-chair: H. Cowles

Kyle S. Fisher, Bachelor of Science in Civil Engineering, 2003, Purdue University—Indiana; Master of Engineering, 2008, Master of Business Administration, 2013, University of Florida

Major: *Civil Engineering*

Dissertation: A Multi-Criteria Decision Making Model for Public-Private Partnership Viability in the U.S.

Dissertation Chair: R. D. Ellis

Matthew Ira Fisher, Bachelor of Science in Electrical Engineering *cum laude*, 2008, Bachelor of Arts *magna cum laude*, 2008, University of Florida

Major: *Physics*

Dissertation: Search for the Standard Model Higgs Boson Decaying to a Bottom Quark Pair with the Cms Detector

Dissertation Chair: I. K. Furic

Bradley W. Foust, Bachelor of Science in Civil Engineering *magna cum laude*, 2002, Master of Science in Civil Engineering, 2003, Auburn University—Alabama

Major: *Civil Engineering*

Dissertation: Investigation of Compressive Membrane Action in Ultra High Performance Concrete Slab Strips

Dissertation Chair: T. Krauthammer

† Degree Awarded Posthumously

- Rania Williams Frederick, Bachelor of Arts in English, 2006, Indiana Wesleyan University; Master of Arts, 2008, University of Florida
 Major: *Mass Communication*
 Dissertation: The Importance of Dialogue: Development-Based Communication Strategy for African American Patients, Their Health Providers, and Community Health Clinics
 Dissertation Chair: M. Lee
 Dissertation Co-chair: B. E. Tripp
- Larry Paul Frey, Bachelor of Science in Liberal Studies, 1987, State University of New York at Albany; Master of Arts in Urban and Regional Planning, 1996, University of Florida
 Major: *Design, Construction, and Planning*
 Dissertation: Effect, Form, Affect: An Exploration of Vernacular Landscape Form Change Using the Context of a Traditional Fishing Village
 Dissertation Chair: S. K. Williams
- Kenneth R. Friedman, Bachelor of Science in Environmental Engineering *cum laude*, 2007, Master of Engineering, 2009, University of Florida
 Major: *Environmental Engineering Sciences*
 Dissertation: Simulation/Optimization of Alternative Water Supply Planning Using Parcel Level Demand Estimation and Management Strategies
 Dissertation Chair: J. Heaney
- Sheldon Adrian Gale, Bachelor of Science, 2003, South Carolina State University; Master of Science, 2005, University of Illinois at Urbana-Champaign
 Major: *Environmental Engineering Sciences*
 Dissertation: Measuring the Energy of Phosphate and Iron Adsorption at the Metal Oxide-Liquid Interface Using Flow-Adsorption Microcalorimetry
 Dissertation Chair: T. G. Townsend
- Andres Jose Garcia, Bachelor of Science, 2005, University of Florida
 Major: *Geography*
 Dissertation: Human and Infection Movement Modeling for Strategic Disease Control and Elimination Planning in Resources Poor Environments
 Dissertation Chair: A. J. Tatem
 Dissertation Co-chair: T. J. Fik
- Kevin L. Gilley, Bachelor of Science in Materials Science and Engineering *cum laude*, 2009, Master of Science, 2011, University of Florida
 Major: *Materials Science and Engineering*
 Dissertation: Fundamental Interfacial Studies of Advanced Solid Lubricants and Their Operating Environments
 Dissertation Chair: S. S. Perry
- Taylor Courtland Glenn, Bachelor of Science in Computer Engineering *cum laude*, 2003, Master of Engineering, 2004, University of Florida
 Major: *Computer Engineering*
 Dissertation: Context-Dependent Detection in Hyperspectral Imagery
 Dissertation Chair: P. D. Gader
 Dissertation Co-chair: J. N. Wilson
- Marlana Behnke Goldsmith, Bachelor of Science in Aerospace Engineering *cum laude*, 2009, Master of Science, 2012, University of Florida
 Major: *Aerospace Engineering*
 Dissertation: Probabilistic Micromechanics of Woven Ceramic Matrix Composites
 Dissertation Chair: B. V. Sankar
 Dissertation Co-chair: R. T. Haftka
- Varun R. Goswami, Master of Science, 2007, Manipal Academy of Higher Education—India
 Major: *Interdisciplinary Ecology*
 Dissertation: Of Populations, Habitat, and People: The Asian Elephant in a World Fast Changing
 Dissertation Chair: M. K. Oli

- Jason R. Graham, Bachelor of Science in Entomology, 2006, University of Delaware; Master of Science, 2009,
University of Florida
Major: *Entomology and Nematology*
Minor: *Agricultural Education and Communication*
Dissertation: Monitoring Tunnel-Nesting Solitary Bees and Wasps
Dissertation Chair: J. D. Ellis
- Arthur Andrade Graziano, Bachelor of Mechanical Engineering, 2008, Georgia Institute of Technology; Master of Science,
2010, University of Florida
Major: *Mechanical Engineering*
Dissertation: Characteristics of Cobalt Chromium Alloy Surfaces Finished Using Magnetic Abrasive Finishing
Dissertation Chair: H. Greenslet
Dissertation Co-chair: P. Ifju
- Leandro Ferreira Greco, Medico Veterinario, 2006, Universidade Federal de Goias—Brazil; Mestre em Agronomia, 2008,
Universidade de Sao Paulo—Brazil
Major: *Animal Molecular and Cellular Biology*
Dissertation: Fatty Acids in Dairy Cattle Nutrition: Insights on Productive and Reproductive Performances
Dissertation Chair: J. Santos
- John Clark Griffin, Bachelor of Science in Aerospace Engineering *summa cum laude*, 2008, Master of Science, 2010,
University of Florida
Major: *Mechanical Engineering*
Dissertation: On the Control of a Canonical Separated Flow
Dissertation Chair: L. N. Cattafesta III
- Ying Guo, Bachelor of Science, 2004, Master of Science, 2007, Nankai University—China; Master of Science, 2012,
University of Florida
Major: *Mathematics*
Dissertation: Energy Estimates and Harnack Type Inequalities for Prescribing Curvature Type Equations with Boundary Conditions
Dissertation Chair: L. Zhang
- Gregory J. Guthrie, Bachelor of Science in Dietetics, 2005, Louisiana State University and A&M College;
Master of Science in Human Resources, 2007, University of Louisiana at Lafayette
Major: *Nutritional Sciences*
Dissertation: Function and Regulation of Intestinal Zinc Transporter Zip14
Dissertation Chair: R. J. Cousins
- Hollie Rebecca Hall, Bachelor of Science in Range Science, 2004, Humboldt State University—California; Master of Science,
2008, University of Florida
Major: *Soil and Water Science*
Dissertation: Recreational Uses of Florida Lakes: Regulatory Protection, Proposed Definition, Patterns of Use, and Water Quality
Dissertation Chair: M. W. Clark
- Da Han, Bachelor of Science, 2009, Xiamen University—China
Major: *Chemistry*
Dissertation: Molecular Engineering of DNA-Based System for Intelligent Therapy
Dissertation Chair: W. Tan
- Lamees Shams Eldin Ahmed Hegazy, Bachelor of Science, 2005, Mansoura University—Egypt
Major: *Chemistry*
Dissertation: Molecular Dynamics Simulations and Virtual Screening to Identify Potent Inhibitors of Human *Asparagine Synthetase*
Dissertation Chair: A. E. Roitberg
- Hunter B. Henderson, Bachelor of Science in Materials Science and Engineering *cum laude*, 2009, University of Florida
Major: *Materials Science and Engineering*
Dissertation: Application of High-Power Electromagnetic Acoustic Transduction to the Fabrication of Light Metal Matrix
Nanocomposites
Dissertation Chair: M. V. Manuel

Brittany Nowlan Hensley, Bachelor of Arts *cum laude*, 2005, Doctor of Audiology, 2009, University of Florida

Major: *Communication Sciences and Disorders*

Dissertation: Auditory Processing and Executive Functioning in Young Adults

Dissertation Chair: S. K. Griffiths

Dissertation Co-chair: L. J. Lombardino

Ana Maria Herrera, Bachelor of Science, 2007, Florida Gulf Coast University

Major: *Medical Sciences—Genetics*

Dissertation: Genital Evolution and Development of Aves

Dissertation Chair: M. J. Cohn

Albert Barrett Hicks III, Bachelor of Chemical Engineering, 2004, Auburn University—Alabama

Major: *Chemical Engineering*

Dissertation: Sputter Deposited Zinc-Magnesium Alloyed Transparent Conducting Oxides for Copper Indium Gallium Diselenide Solar Cells

Dissertation Chair: T. J. Anderson

Samantha Anne Hilber, Bachelor of Science in Biological Sciences, 2006, California State University at Sacramento

Major: *Zoology*

Dissertation: Sexual Selection for Maternal Care in a Biparental Fish

Dissertation Chair: C. M. St. Mary

David C. Horton, Bachelor of Science, 1996, University of the West Indies; Master of Science in Electrical Engineering, 2002, University of Vermont

Major: *Materials Science and Engineering*

Dissertation: Modeling Mechanisms of Degradation in Gan/Algan Devices in Both Off and On States

Dissertation Chair: M. E. Law

Jeffrey David Vegna Hoskins, Bachelor of Science in Physics, 2005, University of Central Florida; Master of Science, 2009, University of Florida

Major: *Physics*

Dissertation: A Modulation Sensitive Search for Non-Virialized Axions

Dissertation Chair: D. B. Tanner

Derek Hsen Dai Hsu, Bachelor of Science in Materials Science and Engineering, 2007, Northwestern University—Illinois; Master of Science, 2011, University of Florida

Major: *Materials Science and Engineering*

Dissertation: Design and Development of NiTi-Based Precipitation-Strengthened High-Temperature Shape Memory Alloys for Actuator Applications

Dissertation Chair: M. V. Manuel

Jia Hu, Bachelor of Management, 2007, Master of Management, 2009, Tianjin University—China

Major: *Design, Construction, and Planning*

Dissertation: An Integrated Model for Selection of Daylighting Systems for Education Facility

Dissertation Chair: S. Olbina

Dissertation Co-chair: I. Flood

Xi Huang, Bachelor of Science, 2008, Peking University—China

Major: *Chemistry*

Dissertation: Monitoring the Polymorphism-Induced Conformational and Dynamics Changes in HIV-1 Protease via Pulsed Electron Paramagnetic Resonance and Nuclear Magnetic Resonance Spectroscopy

Dissertation Chair: G. E. Fanucci

Mussa Sultan Idris, Bachelor of Arts in Sociology and Anthropology, 1999, University of Asmara—Eritrea; Master of Arts, 2002, University of Florida

Major: *Anthropology*

Dissertation: Entrepreneurship Among the Ethiopian and Eritrean Migrants: Anthropological Ethnographic Case Studies in the Washington, D.C., Metropolitan Area

Dissertation Chair: A. Spring

- Jennifer Noelle Jackson, Bachelor of Science in Aerospace Engineering, 2003, Master of Science in Mechanical Engineering, 2005, University of Central Florida; Master of Science, 2012, University of Florida
 Major: *Biomedical Engineering*
 Dissertation: Locomotion Pattern Prediction Based on Whole-Body Angular and Linear Momentum Variations
 Dissertation Chair: B. J. Fregly
- Pit Fee Jao, Bachelor of Engineering in Electrical and Electronics Engineering, 2006, Andhra University—India; Master of Science in Electrical Engineering, 2009, State University of New York at Buffalo
 Major: *Electrical and Computer Engineering*
 Dissertation: Nanofibrous Three Dimensional Microstructures for Energy Storage and Bioengineering Applications
 Dissertation Chair: Y. Yoon
- Supak Jenkitkasemwong, Bachelor of Science, 2005, Chulalongkorn University—Thailand; Master of Science, 2009, University of Florida
 Major: *Nutritional Sciences*
 Dissertation: Investigation of the Roles of the Metal-Ion Transporter Zip14 in Iron Metabolism and Determination of Transmembrane Topology and Structural Requirements of ZIP14
 Dissertation Chair: M. D. Knutson
- Lacey J. Jenson, Bachelor of Liberal Studies, 2007, Iowa State University; Master of Science, 2010, Virginia Polytechnic Institute and State University
 Major: *Entomology and Nematology*
 Dissertation: Characterization of Neuronal Structure and Insecticide Target Site Expression in *Spodoptera Frugiperda* (*Sf21*) and *Anopheles Gambiae* (*Sua1b*) Insect Cells
 Dissertation Chair: J. R. Bloomquist
- Pengxiang Jiang, Bachelor of Science in Civil Engineering, 2008, University of Macau; Master of Science, 2010, University of Florida
 Major: *Civil Engineering*
 Dissertation: Borehole Seismic Imaging: A Full Waveform Inversion Approach
 Dissertation Chair: D. R. Hiltunen
- Jennifer Ilene Johns, Bachelor of Arts *cum laude*, 2008, Covenant College—Georgia
 Major: *Chemistry*
 Dissertation: Carbonylation of Amino Amides and Amines to Ureas and Formamides
 Dissertation Chair: L. A. McElwee-White
- Ashley M. Jones, Bachelor of Arts in Mathematics, 2006, University of California at Santa Cruz; Master of Science, 2010, University of Florida
 Major: *Aerospace Engineering*
 Dissertation: Unsteady Circulation Control for High-Performance Low-Noise Aircraft
 Dissertation Chair: L. N. Cattafesta III
 Dissertation Co-chair: M. Sheplak
- Bennett W. Jordan, Bachelor of Arts in Biology, 2006, Lake Forest College—Illinois
 Major: *Entomology and Nematology*
 Dissertation: Laboratory and Field Evaluation of Subterranean (*Blattodea: Rhinotermitidae*) and Drywood (*Blattodea: Kalotermitidae*) Termite Control Strategies
 Dissertation Chair: P. G. Koehler
- Hyun Min Jung, Bachelor of Science, 2006, Ajou University—South Korea; Master of Science, 2008, Pochon Cha University—South Korea
 Major: *Medical Sciences—Molecular Cell Biology*
 Dissertation: Dissecting Oncogenic and Tumor Suppressive MicroRNA Functions in Oral Carcinogenesis
 Dissertation Chair: E. K. Chan
- Yunchul Jung, Bachelor of Science in Engineering, 2000, Seoul National University—South Korea; Master of Engineering, 2008, University of Florida
 Major: *Agricultural and Biological Engineering*
 Dissertation: Development of Virtual Worlds in Agriculture and Natural Resources for Simulation Experiments and E-Learning Using Ontology-Based Simulation
 Dissertation Chair: H. W. Beck

- Cassandra Marie Juran, Bachelor of Science in Aerospace Engineering *cum laude*, 2008, Bachelor of Science in Mechanical Engineering *cum laude*, 2008, Master of Engineering, 2010, University of Florida
 Major: *Biomedical Engineering*
 Dissertation: Reengineering the TMJ Disc: An Evaluation of Disc Regeneration, Function, and Disease
 Dissertation Chair: P. McFetridge
- Selvi Kadirvel, Bachelor of Engineering in Computer Science Engineering, 2004, University of Madras—India; Master of Science, 2006, University of Florida
 Major: *Electrical and Computer Engineering*
 Dissertation: Techniques and Tools for an Autonomic Approach to Fault and Performance Management in Map-Reduce
 Dissertation Chair: J. A. Fortes
- Navneet Kaur, Bachelor of Science in Agriculture, 2006, Master of Science in Entomology, 2009, Punjab Agricultural University—India
 Major: *Entomology and Nematology*
 Dissertation: Manipulating Maintenance Practices to Reduce the Susceptibility of Two St. Augustinegrass Cultivars to *Blissus Insularis Barber (Hemiptera: Blissidae)*
 Dissertation Chair: E. A. Buss
- Colleen Kennedy, Bachelor of Arts, 1991, Antioch University—Ohio; Master of Science, 2006, University of Arkansas at Fayetteville
 Major: *Horticultural Science Horticultural Sciences*
 Dissertation: Genetic Resistance to Powdery Mildew in Strawberry: Response to Selection and Wild Species Characterization
 Dissertation Chair: V. Whitaker
- Sarah Jeanette Kernan, Bachelor of Arts *summa cum laude*, 2004, Master of Arts, 2008, University of Florida
 Major: *History*
 Dissertation: The Cabanagem and Postcolonial Nation-Building in the Brazilian Amazon, 1830-1860
 Dissertation Chair: J. D. Needell
- Janice A Kerns, Bachelor of Science, 2001, University of Tampa—Florida; Master of Science, 2006, Tennessee Technological University
 Major: *Fisheries and Aquatic Sciences*
 Dissertation: Dissecting Mortality Components for Recreational Fisheries with High Rates of Released Fish
 Dissertation Chair: M. S. Allen
- Leslee Frances Keys, Bachelor of Science, 1976, Ball State University—Indiana; Master of Urban and Regional Planning, 1983, Virginia Polytechnic Institute and State University
 Major: *Design, Construction, and Planning*
 Dissertation: Preserving the Legacy: The Hotel Ponce De Leon and Flagler College
 Dissertation Chair: C. Silver
 Dissertation Co-chair: R. E. Graham
- Megan R. Kienzle, Bachelor of Science in Psychology *cum laude*, 2008, Iowa State University; Master of Arts, 2011, University of Florida
 Major: *Criminology, Law, and Society*
 Minor: *Psychology*
 Dissertation: Evidence Interaction: A More Complete Story of Evidence Contamination in Criminal Trial
 Dissertation Chair: L. M. Levett
- Ki Duk Kim, Bachelor of Science, 2005, Master of Science in Entomology, 2009, Michigan State University
 Major: *Entomology and Nematology*
 Dissertation: Integrated Management of Asian Citrus Psyllid, *Diaphorina Citri Kuwayama*, for Protecting Young Citrus Trees from Huanglongbing
 Dissertation Chair: M. E. Rogers
 Dissertation Co-chair: L. L. Stelinski
- Elisabeth Susanne Knowles, Bachelor of Science, 2008, University of West Florida
 Major: *Physics*
 Dissertation: Strain-Mediated Photomagnetic Effects in Prussian Blue Analogues
 Dissertation Chair: M. W. Meisel

- Ashish Kumar, Bachelor of Technology in Electrical Engineering, 2004, Indian Institute of Technology at Madras;
 Master of Science, 2012, University of Florida
 Major: *Electrical and Computer Engineering*
 Dissertation: Nickel Silicide Growth Modeling Using Level Set Methods
 Dissertation Chair: M. E. Law
- Oh Sung Kwon, Bachelor of Sport Science, 2000, Master of Arts in Education, 2002, Seoul National University—South Korea;
 Master of Science, 2009, East Carolina University—North Carolina
 Major: *Health and Human Performance*
 Dissertation: Angiotensin II Contribute to Mechanical Ventilation-Induced Atrophy and Oxidative Stress in the
 Diaphragm Muscle
 Dissertation Chair: S. K. Powers
- Ohhoon Kwon, Bachelor of Engineering, 2004, Yeungnam University—South Korea; Master of Science in Architectural
 Engineering, 2006, Yonsei University—South Korea; Master of Science, 2013, University of Florida
 Major: *Civil Engineering*
 Dissertation: Application of the Maturity Method for the Prediction of Early Strength of Concrete Under Various
 Curing Conditions
 Dissertation Chair: M. Tia
 Dissertation Co-chair: C. R. Glagola
- Young Sun Kwon, Bachelor of Science, 2003, Master of Science, 2005, Hanyang University—South Korea
 Major: *Design, Construction, and Planning*
 Dissertation: The Effect of Residential Mortgage Foreclosure on Residential Income Segregation
 Dissertation Chair: K. E. Larsen
- Bradley Wayne LaCroix, Bachelor of Science in Mechanical Engineering *cum laude*, 2009, Bachelor of Science in
 Aerospace Engineering *cum laude*, 2009, Master of Science, 2012, University of Florida
 Major: *Mechanical Engineering*
 Dissertation: On the Mechanics, Computational Modeling, and Design Implementation of Piezoelectric Actuators on
 Micro Air Vehicles
 Dissertation Chair: P. Ifju
- Andrew J. Lapetina, Bachelor of Science in Civil and Environmental Engineering honors, 2007,
 Princeton University—New Jersey
 Major: *Coastal and Oceanographic Engineering*
 Dissertation: Modeling the Dissipation of Storm Surge by Coastal Wetlands
 Dissertation Chair: Y. P. Sheng
- Maribeth Latvis, Bachelor of Science in Anthropology-Zoology, 2004, University of Michigan at Ann Arbor
 Major: *Botany*
 Dissertation: Tracking Migration and Diversification Across North and South America in Agalinis (*Orobanchaceae*)
 Dissertation Chair: D. E. Soltis
- Alison M. Lecher, Bachelor of Science in Chemical Engineering *summa cum laude*, 2003,
 Rose-Hulman Institute of Technology—Indiana
 Major: *Chemistry*
 Dissertation: Computational Investigation of Oxalate Decarboxylase and the Decomposition of Oxalic Acid
 Dissertation Chair: R. J. Bartlett
- Jae Woong Lee, Bachelor of Science in Engineering, 2006, Master of Science in Metallurgical Engineering, 2008,
 Yonsei University—South Korea
 Major: *Materials Science and Engineering*
 Dissertation: Solution Processed Infrared Photodetector Based on Quantum Dots with Light Amplification
 Dissertation Chair: F. So
- Jaehoon Lee, Bachelor of Arts, 1995, Kangnung National University—South Korea
 Major: *Anthropology*
 Dissertation: Technofunctional Analysis of Pottery From the Late Neolithic and the Early Bronze Periods: Material Culture
 in the Formation of Ethnic Identity in Korea
 Dissertation Chair: K. E. Sassaman

- Dan Li, Bachelor of Engineering, 2003, Tsinghua University—China; Master of Astronomical Techniques and Methodology, 2006, Graduate School of Chinese Academy of Sciences; Master of Science, 2009, University of Florida
 Major: *Astronomy*
 Dissertation: High-Angular Resolution Mid-Infrared Study of Disks and Environments of Young Stars
 Dissertation Chair: C. M. Telesco
- Guangyao Li, Bachelor of Science, 2008, Sun Yat-Sen University—China; Master of Statistics, 2013, University of Florida
 Major: *Genetics and Genomics*
 Dissertation: Epigenetic Regulation of Chromatin Boundary Regions and Stress Induced Enhancers, a Bioinformatics Study
 Dissertation Chair: L. Zhou
- Jiping Li, Bachelor of Engineering, 1997, Shandong University—China; Master of Engineering, 2000, North China Electric Power University
 Major: *Electrical and Computer Engineering*
 Dissertation: Wafer-Level Fabrication of Power Inductors in Silicon for Compact DC-DC Converters
 Dissertation Chair: H. Xie
- Junjie Li, Bachelor of Engineering, 2009, Beijing University of Posts and Telecommunications—China
 Major: *Computer Engineering*
 Dissertation: GPU Algorithms for Bioinformatics
 Dissertation Chair: S. Sahni
 Dissertation Co-chair: S. Ranka
- Xi Liang, Bachelor of Agriculture, 2006, Northwest A&F University—China; Master of Agriculture, 2009, Beijing Forestry University—China
 Major: *Agronomy*
 Dissertation: Carbon and Water Dynamics of Tallgrass Bioenergy Crops in the Southeastern U.S.
 Dissertation Chair: J. E. Erickson
- Cameron Laine Lilly, Bachelor of Arts, 2006, Knox College—Illinois
 Major: *Medical Sciences—Immunology and Microbiology*
 Dissertation: Investigation of the Role of Insulator-Binding Protein CTCF and Lytic HSV-1 Replication
 Dissertation Chair: D. C. Bloom
- Hao Liu, Bachelor of Science, 2008, Xiamen University—China
 Major: *Chemistry*
 Dissertation: Application of Zirconium Phosphate/Phosphonate Surfaces in Phosphopeptide Enrichment and Protein Immobilization
 Dissertation Chair: D. R. Talham
- Lu Liu, Bachelor of Engineering, 2005, Beijing University of Technology—China; Master of Engineering, 2010, University of Florida
 Major: *Chemical Engineering*
 Dissertation: Reliability Study of GaN-Based High Electron Mobility Transistors
 Dissertation Chair: F. Ren
- Tianyi Liu, Bachelor of Engineering, 2008, Huazhong University of Science and Technology—China; Master of Science, 2010, University of Florida
 Major: *Coastal and Oceanographic Engineering*
 Dissertation: Three Dimensional Simulation of Wave Induced Circulation
 Dissertation Chair: Y. P. Sheng
- Melania C. Lopez Castro, Titulo de Biologo Marino, 2002, Universidad Autonoma—Mexico; Maestria en Ciencias en Ecologia Marino, 2004, Centro de Investigación Científica y de Educación Superior de Ensenada—Mexico
 Major: *Zoology*
 Dissertation: Evaluating Connections Between Oceanic and Neritic Foraging Areas of Sea Turtles in the Atlantic Ocean with Biochemical Markers
 Dissertation Chair: K. Bjorndal

- David Benjamin Lovett, Bachelor of Science in Chemical and Biomolecular Engineering, 2008, Georgia Institute of Technology
 Major: *Chemical Engineering*
 Dissertation: Nuclear Shape Control in Fibroblasts
 Dissertation Chair: T. Lele
- Qinli Ma, Bachelor of Pharmacy, 2001, China Pharmaceutical University
 Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*
 Dissertation: Continuity of Care and Health Outcomes Among Florida Medicaid Enrollees with Sickle Cell Disease (SCD)
 Dissertation Chair: T. Kauf
- Erin A. Mack, Bachelor of Arts, 2006, Oakland University—Michigan
 Major: *Medical Sciences—Immunology and Microbiology*
 Dissertation: The Role of Rad51 in Gene Conversion for DNA Repair and Antigenic Variation in *Babesia bovis*
 Dissertation Chair: D. R. Allred
- Keri Marie Madsen, Bachelor of Science, 1997, East Carolina University—North Carolina; Master of Science, 2002, University of South Florida; Specialist in Education, 2007, University of Florida
 Major: *Special Education*
 Dissertation: The Use of Pseudowords for Decoding Instruction
 Dissertation Chair: H. B. Lane
- Nicholas G. Maling, Bachelor of Science, 2008, University of Florida
 Major: *Medical Sciences—Neuroscience*
 Dissertation: Neurophysiological Correlates of Tourette Syndrome
 Dissertation Chair: M. S. Okun
- Keith Anthony Manuel, Bachelor of Science in History *magna cum laude*, 2003, University of Louisiana at Lafayette; Master of Arts, 2005, University of Florida
 Major: *History*
 Dissertation: The King's Loyal Vassals or a Dangerous Kind of People?: Free People of Color in Havana, 1763-1834
 Dissertation Chair: D. P. Geggus
- Stephen Stewart Masyada, Bachelor of Arts, 2000, Master of Education, 2002, University of Florida
 Major: *Curriculum and Instruction*
 Dissertation: Creating the Citizen: How Social Studies Teachers Understand the Characteristics of Good Citizenship
 Dissertation Chair: E. A. Washington
 Dissertation Co-chair: S. G. Terzian
- Taiki Matsumura, Bachelor of Engineering, 1996, Master of Engineering, 1998, Nagoya University—Japan
 Major: *Aerospace Engineering*
 Dissertation: Effective Safety Measures with Tests Followed by Design Correction for Aerospace Structures
 Dissertation Chair: R. T. Haftka
 Dissertation Co-chair: N. Kim
- T. Dwight McGee Jr., Bachelor of Science in Chemistry, 2005, Master of Science in Chemistry, 2008, Florida A&M University; Master of Science, 2010, University of Florida
 Major: *Chemistry*
 Dissertation: Investigating the Conformational Dynamics of HIV-1 Protease Through Molecular Dynamics
 Dissertation Chair: A. E. Roitberg
- Alicia Carolina Mercado-Harvey, Licenciada en Historia, 1997, Pontificia Universidad Catolica de Chile; Master of Arts in Spanish, 2008, University of South Florida
 Major: *Romance Languages—Spanish*
 Dissertation: Enigma Literario: El Policial Posmoderno Transatlantico Y Posdictatorial
 Dissertation Chair: M. E. Ginway
- Vanessa Jordan Mintzer, Bachelor of Science *cum laude*, 2004, University of Florida; Master of Environmental Management, 2006, Duke University—North Carolina
 Major: *Interdisciplinary Ecology*
 Dissertation: An Evaluation of the Conservation of Amazon River Dolphins (*Inia Geoffrensis*) in a Brazilian Protected Area
 Dissertation Chair: T. K. Frazer
 Dissertation Co-chair: K. Lorenzen

- Hugo Vinicio Miranda, Bachelor of Science *cum laude*, 2008, Bachelor of Science, 2008, University of Florida
 Major: *Microbiology and Cell Science*
 Dissertation: The Ubiquitin-Like Small Archaeal Modifier Proteins in the *Haloarchaeon Haloferax Volcanii*
 Dissertation Chair: J. A. Maupin
- Kacy Allison Mixon, Bachelor of Arts, 2004, University of Florida; Master of Science, 2007, Valdosta State University—Georgia
 Major: *Marriage and Family Counseling*
 Dissertation: Family Resilience Processes Predicting Low Income Kindergarten Children's Approaches to Learning and Reading Achievement
 Dissertation Chair: E. S. Amatea
- Xiaodan Mo, Bachelor of Agronomy, 2006, Master of Agronomy, 2009, China Agricultural University
 Major: *Plant Pathology*
 Dissertation: Interactions Between Plant Growth Promoting Rhizobacteria (PGPR) and Squash Plants: The Role of PGPR-Mediated Suppression of Phytophthora Blight
 Dissertation Chair: S. Zhang
- Jennifer M. Mobberley, Bachelor of Science, 2004, University of Florida; Master's Degree in Physical Sciences, 2007, University of South Florida
 Major: *Microbiology and Cell Science*
 Dissertation: Exploring Microbial and Functional Gene Diversity in Modern Marine Thrombolitic Mat Communities
 Dissertation Chair: J. S. Foster
- Robert W. Molt Jr., Bachelor of Arts in Chemistry, 2007, College of the Holy Cross—Massachusetts; Master of Science, 2009, University of Minnesota
 Major: *Chemistry*
 Dissertation: Nitramine Conformers and Detonation Mechanism via Standard Coupled Cluster and Double-Electron Attached Coupled Cluster Theory
 Dissertation Chair: R. J. Bartlett
- Alison M. Montgomery, Bachelor of Arts, 2003, Master of Arts, 2007, University of Oklahoma at Norman
 Major: *Anthropology*
 Dissertation: Negotiating the Spaces of Fair Trade in South Africa's Wine Industry
 Dissertation Chair: B. H. Chalfin
 Dissertation Co-chair: M. M. Stoilkova
- Cheryl L. Morgan, Bachelor of Arts *cum laude*, 2005, Master of Education, 2006, Specialist in Education, 2008, University of Florida
 Major: *Special Education*
 Minor: *Research and Evaluation Methodology*
 Dissertation: Examining the Establishment of a Post-Secondary Education Program for Young Adults with Intellectual Disabilities at a Research University
 Dissertation Chair: J. Crockett
- Holly Turner Moses, Bachelor of Science in Health Science Education *magna cum laude*, 2003, Master of Health Science Education, 2005, University of Florida
 Major: *Curriculum and Instruction*
 Dissertation: The Relationship Between the Processes of Moral Disengagement and Youth Perceptions of Cyberbullying Behaviors During Their Final Semester of High School
 Dissertation Chair: D. D. Ross
- Mary Kimberly Mullenix, Bachelor of Science in Animal Science, 2008, Master of Science in Animal Science, 2010, Auburn University—Alabama
 Major: *Agronomy*
 Minor: *Agricultural Education and Communication*
 Dissertation: Strategies for Increasing Rhizoma Peanut Contribution to Productivity and Ecosystem Services of Low Input Pasture Systems
 Dissertation Chair: L. E. Sollenberger

Lana D. Muniz, Bachelor of Science in Physics, 2010, University of Illinois at Urbana-Champaign

Major: *Physics*

Dissertation: Search for New Physics in Same-Sign Dilepton Events in the CMS Detector at the Large Hadron Collider
Dissertation Chair: J. M. Yelton

Manu Nandan, Bachelor of Technology, 2003, National Institute of Technology—India; Master of Science, 2009, University of Florida

Major: *Computer Engineering*

Dissertation: Fast SVM Training Using Approximate Extreme Points
Dissertation Chair: P. Khargonekar
Dissertation Co-chair: S. Talathi

Zahra Nasrollahi, Bachelor of Physics, 1999, Master of Physics, 2003, Sharif University of Technology—Iran; Master of Science, 2009, University of Florida

Major: *Physics*

Dissertation: Spectroscopic Studies of Polymers in Transmissive/Absorptive Electrochromic Devices, and Doped Graphite
Dissertation Chair: D. B. Tanner

James Trygve Newlin, Bachelor of Arts in English, 2004, Davidson College—North Carolina; Master of Arts, 2009, University of Florida

Major: *English*

Dissertation: Speech Made Unable: Inexpressibility, Sublimity, and Nothingness in King Lear and Its Reception
Dissertation Chair: R. A. Burt

Trang Thi Le Nguyen, Engineer, 2008, Hanoi University of Technology—Vietnam

Major: *Industrial and Systems Engineering*

Dissertation: Convexification Techniques for Complementarity and Multilinear Constraints
Dissertation Chair: J. Richard

Jessica Renee Nicks, Bachelor of Science in Biology, 2006, Augusta State University—Georgia

Major: *Medical Sciences—Neuroscience*

Dissertation: Modulation of Autophagy as a Therapeutic Target for Neuropathic Disease
Dissertation Chair: L. Notterpek

Ode Ojowu Jr., Bachelor of Arts, 2005, Grinnell College—Iowa; Bachelor of Science in Electrical Engineering, 2007, Master of Science in Electrical Engineering, 2007, Washington University—Missouri

Major: *Electrical and Computer Engineering*

Dissertation: Data-Adaptive Spectral Estimation Algorithms and Their Sensing Applications
Dissertation Chair: J. Li

Akua Bonsu Oppong-Anane, Bachelor of Science in Chemical Engineering, 2002, Kwame Nkrumah University of Science and Technology—Ghana; Master of Science, 2007, University of Florida

Major: *Environmental Engineering Sciences*

Minor: *Soil and Water Science*

Dissertation: Insights Into the Mechanisms of Iron Reductive Dissolution in Vadose Zone Soils and Implications for Landfill Activities: Predicting the Potential for Groundwater Pollution
Dissertation Chair: J. Bonzongo

Matias Alejandro Oyarzun, Bachelor of Science in Mechanical Engineering *cum laude*, 2005, Bachelor of Science in Aerospace Engineering *cum laude*, 2005, Master of Science, 2008, University of Florida

Major: *Mechanical Engineering*

Dissertation: On the Design and Optimization of Zero-Net Mass-Flux Actuators for Active Flow Control Applications
Dissertation Chair: L. N. Cattafesta III

Darina I. Palacio, Bachelor of Science in Civil Engineering, 2007, California State University at Sacramento; Master of Engineering, 2009, University of Florida

Major: *Environmental Engineering Sciences*

Dissertation: Quantifying and Prioritizing Stream Restoration Needs in Florida
Dissertation Chair: D. A. Kaplan

- Vijay Sunder Naga Pappu, Bachelor of Technology in Mechanical Engineering, 2006, Indian Institute of Technology at Madras; Master of Science in Mechanical and Aerospace Engineering, 2008, Rutgers University at New Brunswick—New Jersey; Master of Science, 2011, University of Florida
 Major: *Industrial and Systems Engineering*
 Dissertation: Supervised Machine Learning Models for Feature Selection and Classification on High Dimensional Datasets
 Dissertation Chair: P. M. Pardalos
- Chanyoung Park, Bachelor of Science in Naval Architecture and Ocean Engineering, 2004, Master of Science in Naval Architecture and Ocean Engineering, 2006, Seoul National University—South Korea
 Major: *Mechanical Engineering*
 Dissertation: Probabilistic Structural Design: Effects of Multi Stage Testing and Multiple Failure Modes
 Dissertation Chair: N. Kim
 Dissertation Co-chair: R. T. Haftka
- Jennifer L. Parker, Bachelor of Science in Biological Sciences, 2009, North Carolina State University
 Major: *Plant Molecular and Cellular Biology*
 Dissertation: A Mass Spectrometry Approach to Characterizing Global and Redox Proteomics Changes in Tomato in Response to *Pseudomonas Syringae* Infection
 Dissertation Chair: S. Chen
- Shilpa Patil, Bachelor of Physiotherapy, 2003, Devi Ahilya Vishwavidyalaya—India
 Major: *Rehabilitation Science*
 Minor: *Statistics*
 Dissertation: Distinct Pattern of Walking Recovery Following Therapeutic Interventions Post-Stroke: Responders vs. Non-Responders
 Dissertation Chair: C. Patten
- Rachel J. Pawlitz, Bachelor of Arts in Biology, 1997, Truman State University—Missouri; Master of Arts, 2002, Macquarie University—Australia
 Major: *Interdisciplinary Ecology*
 Dissertation: War of Words: Ecosystems, Equity, and Adaptive Management in America's Southeastern Water War
 Dissertation Chair: K. Z. Schwartz
- Alexander Grey Pemba, Bachelor of Arts in Chemistry *magna cum laude*, 2008, Texas A&M University at College Station
 Major: *Chemistry*
 Dissertation: Polyacetals From Bioderived Starting Materials as Potential Replacements for Commodity Packaging Plastics
 Dissertation Chair: S. A. Miller
- Robert Todd Perdue, Bachelor of Arts in History, 1998, Master of Science in Sociology, 2008, Virginia Polytechnic Institute and State University
 Major: *Sociology*
 Dissertation: Networks of Resistance: Opposition to Strip Coal Mining in Central Appalachia, 1977-2012
 Dissertation Chair: M. Pena
- Deepa Kishor Pindolia, Bachelor of Science in Business Mathematics and Statistics, 2007, London School of Economics and Political Science—United Kingdom; Master of Science in Modern Epidemiology, 2010, Imperial College of Science, Technology and Medicine—United Kingdom
 Major: *Geography*
 Dissertation: Quantifying Human Population Movement for Malaria Control and Elimination Planning in East Africa
 Dissertation Chair: A. J. Tatem
 Dissertation Co-chair: T. J. Fik
- William Edward Pratt-Dannals, Bachelor of Science, 1973, Georgia State University; Master's Degree, 1981, University of North Florida
 Major: *Educational Leadership*
 Dissertation: Effectively Implementing Strategic Plans in Large Urban School Districts: The Perspective of Florida Superintendents
 Dissertation Chair: B. Oliver

- Shanty Yulianti Rachmat, Sarjana Teknik, 2002, Magister Teknik, 2005, Institut Technology Bandung—Indonesia;
Master of Science, 2005, University of Groningen—Netherlands
Major: *Design, Construction, and Planning*
Dissertation: Time-Of-Day Travel Behavior and Built Environment for Regional and Downtown Trips: The Potential Application for Parking Demand Management Strategies in Southeast Florida
Dissertation Chair: R. L. Steiner
Dissertation Co-chair: P. D. Zwick
- Jeremy J. Radachowsky, Bachelor of Science in Ecology and Evolutionary Biology *summa cum laude*, 1997, University of Connecticut; Master of Science in Environmental Science, 2002, Florida International University
Major: *Interdisciplinary Ecology*
Dissertation: Multi-Stakeholder Platforms for Conservation and Development in Complex Social-Ecological Systems
Dissertation Chair: G. Kiker
- Rosa Emilia Raudales Banegas, Bachelor of Science in Agriculture, 2003, Pan American School of Agriculture—Honduras;
Master of Science, 2008, Ohio State University
Major: *Horticultural Science—Environmental Horticulture*
Minor: *Agricultural Education and Communication*
Dissertation: Characterization of Water Treatment Technologies in Irrigation
Dissertation Chair: P. R. Fisher
- Joseph C. Revelli, Bachelor of Science in Chemical Engineering, 2006, Carnegie Mellon University—Pennsylvania
Major: *Chemical Engineering*
Dissertation: Development of Group Iii/Nitride Nanostructures for a Novel Light-Emitting Diode
Dissertation Chair: T. J. Anderson
- Paul Markey Riherd II, Bachelor of Science in Engineering, 2009, Duke University—North Carolina; Master of Science, 2011, University of Florida
Major: *Mechanical Engineering*
Dissertation: The Control of Boundary Layers and Channel Flows Using Plasma Actuators
Dissertation Chair: S. Roy
- Joysee Mariela Rodriguez Baide, Bachelor of Science in Natural Resources, 2001, Pan American School of Agriculture—Honduras; Master of Science, 2005, Auburn University—Alabama
Major: *Interdisciplinary Ecology*
Dissertation: Adaptation to Climate Variability in Calakmul, Campeche, Mexico: Bridging Disciplines and Scales with Scenario-Based Integrative Modeling
Dissertation Chair: G. Kiker
Dissertation Co-chair: E. Keys
- Prisca M. Rodríguez Cruz, Bachelor of Arts in English, 2000, University of Puerto Rico at Mayaguez; Master of Arts, 2004, University of Central Florida
Major: *Curriculum and Instruction*
Dissertation: The Visual Connection: A Qualitative Study of 4 and 5 Grade Teachers' Use of Visuals Within Technology Enhanced Curriculum
Dissertation Chair: R. M. Lowery
- Juan Jose Romero Gomez, Bachiller en Ciencias Zootecnia, 2007, Universidad Nacional Agraria La Molina—Peru;
Master of Science, 2009, University of Florida
Major: *Animal Sciences*
Dissertation: Improving the Potency and Reliability of Fibrolytic Enzymes for Enhancing Forage Utilization by Dairy Cattle
Dissertation Chair: A. T. Adesogan
- Rachel L. Rosenthal, Bachelor of Arts in Liberal Arts, 2007, Master of Arts, 2009, Armstrong Atlantic State University—Georgia
Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*
Dissertation: Board Certified Pharmacists' Motivational Influences and Job Satisfaction
Dissertation Chair: R. Segal

- Edith Marion Sampson, Bachelor of Science *cum laude*, 1999, Master of Science, 2004, University of Florida
 Major: *Medical Sciences—Immunology and Microbiology*
 Dissertation: Streptococcus Mutans OMZ175 Invasion of Human Tissues in Culture
 Dissertation Chair: A. Progulske-Fox
- Allison Lorraine Sang, Bachelor of Science in Biology, 2008, University of Tampa—Florida
 Major: *Medical Sciences—Immunology and Microbiology*
 Dissertation: Multistep Regulation of Rheumatoid Factor B Cell Activation in the NZM2410 Mouse Model of Lupus
 Dissertation Chair: L. Morel
- Lourdes Santiago Poventud, Bachelor of Science, 1991, Master of Science, 1995, Master of Science, 1999,
 Florida International University
 Major: *Special Education*
 Dissertation: Developing Social-Emotional Vocabulary Through Storybook Reading
 Dissertation Chair: H. B. Lane
 Dissertation Co-chair: E. D. Mccray
- Samuel C. Schramski, Bachelor of Arts in American Studies, 2006, University of California at Berkeley; Master of Arts,
 2009, University of Florida
 Major: *Interdisciplinary Ecology*
 Dissertation: Adaptive Capacity and Climate Change Adaptation in Rural South Africa: Temporal, Network, and
 Agrarian Dimensions
 Dissertation Chair: G. Barnes
- Lisa Anne Seales, Bachelor of Science, 1998, University of Oregon; Master of Science, 2008, University of Florida
 Major: *Interdisciplinary Ecology*
 Dissertation: Collaborative Water Management in Oregon: Perceptions, Policies, and Partnerships
 Dissertation Chair: T. V. Stein
- Sunehali Sharma, Bachelor of Science in Agriculture, 2007, Master of Science, 2009, Punjab Agricultural University—India
 Major: *Horticultural Science*
 Dissertation: Mode of Action of an Abscission Agent and a Model to Predict Loosening of Sweet Oranges as an Aid to
 Mechanical Harvesting
 Dissertation Chair: E. J. Etxeberria
- Yan Shen, Bachelor of Engineering, 2007, Master of Engineering, 2009, Tianjin University—China
 Major: *Civil Engineering*
 Dissertation: Design of Composite Panel Door Systems for Critical Facilities in Hurricane-Prone Areas Using Full-Scale
 Experimental and Computational Methods
 Dissertation Chair: F. Masters
 Dissertation Co-chair: G. R. Consolazio
- Weian Sheng, Bachelor of Engineering, 2009, Huazhong University of Science and Technology—China; Master of Science,
 2012, University of Florida
 Major: *Mechanical Engineering*
 Dissertation: Microfluidic Devices for Isolation of Circulating Tumor Cells
 Dissertation Chair: Z. H. Fan
- Alexander F. Shenkin, Bachelor of Science, 1994, University of California at San Diego; Master of Engineering
 in Electronic Engineering, 2001, University of Colorado at Boulder; Master of Science in
 Environmental Science, 2006, Yale University—Connecticut
 Major: *Interdisciplinary Ecology*
 Dissertation: Fates of Trees and Forests in Bolivia Subjected to Selective Logging, Fire, and Climate Change
 Dissertation Chair: F. E. Putz
- Matthew C. Shields, Bachelor of Science in Aerospace Engineering Sciences, 2010, Master of Science in Aerospace
 Engineering Sciences *magna cum laude*, 2010, University of Colorado at Boulder
 Major: *Aerospace Engineering*
 Dissertation: The Effects of Roll Stall on the Stability and Control of Low Aspect Ratio Wings
 Dissertation Chair: K. Mohseni

- Oleg Aleksandrovich Shirokikh, Bachelor of Information Systems, 2009, Voronezh State University—Russia;
 Master of Science, 2012, University of Florida
 Major: *Industrial and Systems Engineering*
 Dissertation: Degree-Based Clique Relaxations: Theoretical Bounds, Computational Issues, and Applications
 Dissertation Chair: V. L. Boginski
- Lin Shou, Bachelor of Engineering, 2005, Master of Engineering, 2007, Zhejiang University—China
 Major: *Environmental Engineering Sciences*
 Dissertation: Diffusional Release of Pollutants Into Ambient Air and Method for Enhancing Diffusional Collection in Air Sampling
 Dissertation Chair: C. Wu
- Mrugesh Surendra Shringarpure, Bachelor of Engineering, 2007, University of Mumbai—India; Master of Science, 2010,
 University of Florida
 Major: *Mechanical Engineering*
 Dissertation: Numerical Investigation of Particulate Gravity Currents
 Dissertation Chair: S. Balachandar
- Hugo Richard Sindelar IV, Bachelor of Science in Civil Engineering, 2008, Lafayette College—Pennsylvania;
 Master of Engineering, 2013, University of Florida
 Major: *Environmental Engineering Sciences*
 Dissertation: Coupled Chemical/Biological Systems for Maximizing Phosphorus Removal From Natural Waters
 Dissertation Chair: M. T. Brown
 Dissertation Co-chair: T. H. Boyer
- Savyasachi Singh, Bachelor of Technology in Electronics and Communication Engineering, 2005,
 Vellore Institute of Technology—India; Master of Science, 2007, University of Florida
 Major: *Electrical and Computer Engineering*
 Dissertation: Automatic Evaluation of Disordered Speech
 Dissertation Chair: J. G. Harris
- Nikoloz Skhirtladze, Bachelor of Physics, 2005, Master of Physics, 2007, Ivane Javakhishvili Tbilisi State University—Georgia
 Major: *Physics*
 Dissertation: Searching for Supersymmetry with Tri-Leptons and Missing Transverse Energy Using the CMS Experiment at
 the Large Hadron Collider
 Dissertation Chair: A. Korytov
 Dissertation Co-chair: G. Mitselmakher
- Minjun Son, Bachelor of Science *cum laude*, 2007, University of Florida
 Major: *Physics*
 Dissertation: Analysis of Stochasticity in Competence Regulation of *Streptococcus Mutans* Using Microfluidics and Single
 Cell Analysis
 Dissertation Chair: S. J. Hagen
- J. Angel Soto-Centeno, Bachelor of Science in Biology, 2000, Inter-American University—Puerto Rico; Master of Science,
 2004, Eastern Michigan University
 Major: *Zoology*
 Dissertation: Bat Bones, Climate, and Clones: Extinction and Phylogeography of Caribbean Bats During the Late Quaternary
 Dissertation Chair: D. L. Reed
- Carrie Jean Spitler, Bachelor of Arts in Economics, 2004, Villanova University—Pennsylvania; Master of Arts in Education,
 2008, University of Saint Thomas—Texas
 Major: *Special Education*
 Dissertation: Transition Compliance and Evidence-Based Practices in Public Cyber Charter Schools: Effects of
 Student Demographics
 Dissertation Chair: J. Repetto
- Sriniwas Sriram, Bachelor of Technology, 2008, Sathyabama University—India; Master of Science, 2011, University of Florida
 Major: *Biomedical Engineering*
 Dissertation: Combination siRNA Treatment to Reduce Corneal Scarring in Rabbits
 Dissertation Chair: B. Keselowsky
 Dissertation Co-chair: G. S. Schultz

- John Nathan Stabley, Bachelor of Science, 2003, Master of Science, 2006, University of Delaware
 Major: *Health and Human Performance*
 Dissertation: Determinants of Bone Blood Flow in Disuse, Diabetes, and Health
 Dissertation Chair: M. Delp
- David D. Stanton, Bachelor of Science in Journalism, 2002, Master of Arts in Mass Communication, 2005, University of Florida
 Major: *Mass Communication*
 Dissertation: Discriminating News-Reading Behavior and Cognition Using Eye-Tracking Methodologies
 Dissertation Chair: J. W. Wright
- Forrest Robert Stevens, Bachelor of Arts, 1998, University of Chicago—Illinois; Master of Science, 2009, University of Florida
 Major: *Geography*
 Dissertation: Sensing Change: Methodologies of Scale and Analyzing Interactions of Land Cover, Land Use, and Forest Changes in Wallowa County, Oregon
 Dissertation Chair: J. Southworth
 Dissertation Co-chair: G. Kiker
- Gabriela Stocks, Bachelor of Arts, 1998, University of Chicago—Illinois; Master of Arts, 2007, University of Florida
 Major: *Anthropology*
 Dissertation: Assessing the Long-Term Effects of Development-Forced Displacement and Resettlement: The Case of Nuevo Arenal, Costa Rica
 Dissertation Chair: A. R. Oliver Smith
- Matthew Strasberg, Bachelor of Science in Engineering Physics, 2007, Cornell University—New York
 Major: *Materials Science and Engineering*
 Dissertation: Understanding Fracture in Brittle Materials by Connecting Macroscopic Observations and Quantum Theory
 Dissertation Chair: J. J. Mecholsky
- Samantha Leigh Strickland, Bachelor of Science in Neuroscience, 2003, Brigham Young University—Utah
 Major: *Medical Sciences—Genetics*
 Dissertation: SIV Intra-Host Phylodynamics and Pathogenesis in the CD8-Lymphocyte Depleted Model of NeuroAIDS
 Dissertation Chair: M. M. Salemi
- Yiqiang Su, Bachelor of Engineering in Industrial Engineering and Engineering Management, 2009, Hong Kong University of Science and Technology; Master of Science, 2011, University of Florida
 Major: *Industrial and Systems Engineering*
 Dissertation: Planning Models for Price Promotions in Multi-Level Supply Chains
 Dissertation Chair: J. P. Geunes
- Baohua Sun, Bachelor of Engineering, 2006, Beijing University of Post and Telecommunications—China; Master of Engineering, 2010, Tsinghua University—China
 Major: *Electrical and Computer Engineering*
 Dissertation: Game Theoretical Approach for Clustering and Its Application in Big Data Analytics
 Dissertation Chair: D. Wu
- Kang Hoon Sung, Bachelor of Arts, 2006, Korea University—South Korea; Master of Arts in Mass Communication, 2010, University of Florida
 Major: *Mass Communication*
 Dissertation: The Effect of Interactivity and Conversational Tone on Organizations' Personification and Perceived Relationship Investment
 Dissertation Chair: M. Ferguson
 Dissertation Co-chair: M. Lee
- Anna Maria Szyniszewska, Bachelor of Tourism and Recreation, 2003, Adam Mickiewicz University in Poznan—Poland; Master of Science, 2009, University of Florida
 Major: *Geography*
 Dissertation: Construction of Multidisciplinary Computational Tools to Assess Seasonal Risk Indicators of Mediterranean Fruit Fly *Ceratitis Capitata* (Medfly) Importation Into Florida.
 Dissertation Chair: A. J. Tatem

- Mark A. Tabone, Bachelor of Science in Biology *magna cum laude*, 1997, Master of Science in Zoology, 2000, Master of Arts in English, 2009, University of Maine
 Major: *English*
 Dissertation: The Politics of Utopia and Dystopia in Late Twentieth-Century Black Literature
 Dissertation Chair: P. E. Wegner
- Yen Thi-Ha Tang, Engineer, 2006, Hanoi University of Technology—Vietnam; Master of Science in Industrial Engineering, 2008, University of California at Berkeley
 Major: *Industrial and Systems Engineering*
 Dissertation: A Class of Algorithms for Mixed-Integer Bilevel Min-Max Optimization Problems and Its Applications
 Dissertation Chair: J. Richard
 Dissertation Co-chair: J. Smith
- Henry Christian John Tecklenburg IV, Bachelor of Arts in Political Science, 2002, Juris Doctor, 2005, University of South Carolina at Columbia; Master of Arts, 2010, University of Florida
 Major: *Political Science*
 Dissertation: Court Rewarding and Curbing: A Bicameral Analysis of Incentives and Sanctions Between the United States Congress and the Federal Judiciary
 Dissertation Chair: L. C. Dodd
 Dissertation Co-chair: M. Hendershot
- Andrea Lauren Thoermer, Bachelor of Arts, 2003, Flagler College—Florida; Master of Education in Elementary Education, 2010, University of North Florida
 Major: *Curriculum and Instruction*
 Dissertation: Examining the Decisions and Practices of Exemplary Fourth- and Fifth-Grade Teachers When Differentiating Reading Instruction: A Grounded Theory Approach
 Dissertation Chair: E. Bondy
- Steven Tyler Thornton, Bachelor of Science *cum laude*, 2009, Belhaven College—Mississippi
 Major: *Agronomy*
 Dissertation: Evaluation of Genetic Variability of Seed Calcium Concentration in Peanut (*Arachis Hypogaea L.*) and Its Relationship with Poor Germination and Resistance to Leaf Spot
 Dissertation Chair: B. L. Tillman
 Dissertation Co-chair: M. Gallo
- Peter Tsyurmasto, Bachelor of Science in Applied Mathematics and Physics, 2008, Master in Applied Mathematics and Physics, 2010, Moscow Institute of Physics and Technology—Russia
 Major: *Industrial and Systems Engineering*
 Dissertation: Risk Management Approaches in Data Mining
 Dissertation Chair: S. Uryasev
- Qiuya Tu, Bachelor of Engineering, 2004, Master of Engineering, 2006, Beijing Institute of Technology—China; Master of Science, 2012, University of Florida
 Major: *Mechanical Engineering*
 Dissertation: Effects of Fuel Injection on Mixing and Upstream Interactions in Supersonic Flow
 Dissertation Chair: C. Segal
- Diane Turek, Master of Science, 2011, University of Florida
 Major: *Chemistry*
 Dissertation: Molecular Recognition of Bacteria and Cancer Cells Using Ssdna Aptamers
 Dissertation Chair: W. Tan
- Royce L. Turner, Bachelor of Science, 1992, Florida State University; Master of Science, 2000, Nova Southeastern University—Florida
 Major: *Educational Leadership*
 Dissertation: The Effect of Mobility on Graduation and Dropout Rates in a Large Urban School District
 Dissertation Chair: B. Oliver

- Angela Marie Valadez, Bachelor of Science in Genetic Biology, 2003, Master of Science in Food Science, 2006, Purdue University—Indiana; Master of Science in Food Science, 2010, Pennsylvania State University
 Major: *Food Science and Human Nutrition*
 Minor: *Agricultural Education and Communication*
 Dissertation: Risk of *Salmonella Spp.* for Fresh Market Tomatoes During Pre- and Post-Harvest Practices
 Dissertation Chair: M. D. Danyluk
- Evelien Van Ekert, Licentiaat in de Biotechnologie, 2005, University of Ghent—Belgium; Master of Science, 2010, University of Florida
 Major: *Entomology and Nematology*
 Dissertation: Identification and Characterization of Farnesoic Acid Methyltransferase in *Diaphorina Citri Kuwayama* (*Hemiptera: Liviidae*), and Targeting This Enzyme as a Biorational Control Strategy to Reduce the Spread of Citrus Greening Disease
 Dissertation Chair: R. D. Cave
 Dissertation Co-chair: R. G. Shatters
- Maria Christina Vasquez Haakenson, Bachelor of Science in Animal Science, 2006, University of California at Davis; Master of Science in Biology, 2009, California State University at Northridge
 Major: *Animal Molecular and Cellular Biology*
 Dissertation: Multiple Stressor Interactions and Effects on Embryo Development of the American Horseshoe Crab, *Limulus Polyphemus*
 Dissertation Chair: D. Julian
- Divya Vasudev, Master of Science, 2007, Manipal Academy of Higher Education—India
 Major: *Wildlife Ecology and Conservation*
 Dissertation: Species Dispersal Behavior and Connectivity in Fragmented Landscapes
 Dissertation Chair: R. J. Fletcher Jr.
- Nicholas Jan Vito, Bachelor of Science in Engineering, 2008, University of Illinois at Urbana-Champaign
 Major: *Materials Science and Engineering*
 Dissertation: Studies on the Role of Ion Beam Mixing for Germanium and Silicon Lithium Ion Battery Anodes
 Dissertation Chair: K. S. Jones
- Ann Marie Wainscott, Bachelor of Arts in Government and Politics *summa cum laude*, 2006, Master of Arts in Government and Politics, 2007, St. Johns University—New York; Master of Arts, 2010, University of Florida
 Major: *Political Science*
 Dissertation: How an Islamic Solution Became an Islamist Problem: Education, Authoritarianism and the Politics of Opposition in Morocco
 Dissertation Chair: L. Villalon
- Fang Wang, Bachelor of Engineering, 2006, Hebei University of Engineering—China; Master of Engineering, 2009, China University of Geosciences
 Major: *Environmental Engineering Sciences*
 Minor: *Hydrogeologic Modeling*
 Dissertation: Source Depletion Model Estimation at Dense Nonaqueous Phase Liquid Contaminated Sites
 Dissertation Chair: M. D. Annable
- Ruoxuan Wang, Bachelor of Engineering, 2008, Tsinghua University—China
 Major: *Business Administration—Information Systems and Operations Management*
 Dissertation: Essays on Supply Chain Coordination
 Dissertation Chair: J. E. Carrillo
- Ying Wang, Bachelor of Science, 2006, Master of Science, 2008, Wuhan University—China
 Major: *Geography*
 Minor: *Numerical Methods in Public Health*
 Dissertation: Spatio-Temporal Modeling for Peak Events of Seasonal Influenza: A Case Study in Florida
 Dissertation Chair: P. R. Waylen
 Dissertation Co-chair: L. Mao

- Zachary Levi Watson, Bachelor of Science in Biology, 2006, University of North Florida
Major: *Medical Sciences—Genetics*
Dissertation: The Latency-Associated Transcript and Its Role in Regulation of HSV-1 Latency
Dissertation Chair: D. C. Bloom
- Matthew Owen Watts, Bachelor of Science in Biochemistry, 2007, North Carolina State University
Major: *Medical Sciences—Immunology and Microbiology*
Dissertation: Carbohydrate- and Oxygen-Dependent Gene Expression in *Streptococcus Mutans*
Dissertation Chair: R. A. Burne
- Nicola M. Wayer, Bachelor of Arts, 1998, Flagler College—Florida; Master of Science in Education, 2001,
University of North Florida
Major: *Curriculum and Instruction*
Dissertation: From Design to Enactment: A Case Study of Blended Learning Across the Content Areas in a K-12 School
Dissertation Chair: K. M. Dawson
Dissertation Co-chair: K. J. Crippen
- Xuerong Wen, Bachelor of Science, 1991, Central South University of Technology—China; Master of Science, 1998,
University of Alabama; Master of Public Health, 2007, Master of Statistics, 2008, University of Florida
Major: *Pharmaceutical Sciences—Pharmaceutical Outcomes and Policy*
Dissertation: Combining Adverse Perinatal Outcomes for Women Exposed to Antiepileptic Drugs During Pregnancy, Using
a Latent Trait Model
Dissertation Chair: A. G. Hartzema
- Patrick G. Whiting, Bachelor of Arts, 2009, Master of Arts, 2009, Rochester Institute of Technology—New York
Major: *Materials Science and Engineering*
Dissertation: Studies on the Reliability of Ni-Gate Aluminum Gallium Nitride/Gallium Nitride High Electron Mobility
Transistors Using Chemical Deprocessing
Dissertation Chair: K. S. Jones
- David P. Wood, Bachelor of Chemical Engineering, 2006, Auburn University—Alabama
Major: *Chemical Engineering*
Dissertation: Growth of Gallium Nitride and Indium Gallium Nitride Nano/Microstructures via Metal Organic Chemical
Vapor Deposition
Dissertation Chair: T. J. Anderson
- Chin-Lung Wu, Bachelor of Science, 2000, National Cheng Kung University—Taiwan; Master of Science, 2002,
National Taiwan University
Major: *Agricultural and Biological Engineering*
Dissertation: Effects of Water Retention on the Water Dynamics of Wetlandupland Systems on the Ranchlands in the Lake
Okeechobee Watershed, Florida
Dissertation Chair: S. Shukla
Dissertation Co-chair: W. D. Graham
- Zhiming Xiao, Bachelor of Engineering and Technology, 2006, Huazhong University of Science and Technology—China;
Master of Science, 2008, University of Florida
Major: *Electrical and Computer Engineering*
Dissertation: Low Power Circuits and Systems for Brain Machine Interface
Dissertation Chair: R. Bashirullah
- Lin Xue, Bachelor of Engineering, 2005, Master of Engineering, 2007, Tsinghua University—China
Major: *Electrical and Computer Engineering*
Dissertation: High Voltage Switched-Mode Step-Up DC-DC Converters in Standard CMOS Process
Dissertation Chair: R. Bashirullah
- Bidhyananda Yadav, Master of Science, 2004, Wageningen University and Research Centre—Netherlands; Master of Science,
2009, University of Florida
Major: *Civil Engineering*
Dissertation: Direct Stream Hydrograph Prediction From Digital Elevation Model
Dissertation Chair: K. Hatfield

- Shiori Yamazaki, Bachelor of Engineering, 2006, Kyoto Institute of Technology—Japan
 Major: *Chemistry*
 Dissertation: Ultrafast Studies of Electron and Energy Transfer in Polynuclear Ruthenium Based Complexes
 Dissertation Chair: V. D. Kleiman
- Yuanqing Yan, Bachelor of Engineering, 2004, Master of Engineering, 2007, Xiamen University—China
 Major: *Genetics and Genomics*
 Dissertation: Circadian Rhythm Disorder and the Protective Effects of Intermittent Fasting at Night in Diabetes
 Dissertation Chair: M. A. Grant
 Dissertation Co-chair: H. C. Derendorf
- Ce Yang, Bachelor of Engineering, 2007, Master of Engineering, 2009, China Agricultural University
 Major: *Agricultural and Biological Engineering*
 Dissertation: Spectral Analysis and Computer Vision Using Multispectral/Hyperspectral Image Processing to Detect Blueberry Fruit Maturity Stages for Early Blueberry Yield Estimation
 Dissertation Chair: W. Lee
- Shuo Yang, Bachelor of Medical Science, 2000, Peking University—China; Master of Science in Pharmacy, 2005, Master of Science, 2008, University of Florida
 Major: *Health Services Research*
 Dissertation: Evaluating the Effect of the Enhanced Benefits Reward Program Participation on Florida Medicaid Utilizations and Expenditures
 Dissertation Chair: J. S. Harman
- Siwy Ling Yang, Bachelor of Science, 2005, Master of Science, 2007, National Dong Hwa University—Taiwan
 Major: *Plant Pathology*
 Dissertation: The NADPH Oxidase-Mediated Oxidative Stress Signaling, Resistance, Pathogenicity and Development in *Alternaria Alternata* of Citrus
 Dissertation Chair: K. Chung
- Xin Yang, Bachelor of Science, 2004, Nanjing University—China; Master of Science in Computer Science, 2010, Oklahoma State University
 Major: *Computer Engineering*
 Dissertation: Design and Implementation of Mapreduce Systems for Block-Oriented Iterative Scientific Applications
 Dissertation Chair: X. Li
- Emir Yasun, Bachelor of Science in Chemistry, 2008, Bilkent University—Turkey
 Major: *Chemistry*
 Dissertation: Aptamer Functionalized Noble Metal Particles for Bioanalytical and Biomedical Applications
 Dissertation Chair: W. Tan
- Ya-Wen Yeh, Bachelor of Science in Biomedical Engineering, 2007, Tatung University—Taiwan; Master of Science, 2009, University of Florida
 Major: *Biomedical Engineering*
 Dissertation: Phage Display Techniques for Selection of Inorganic Binding Peptides with Electroactive Properties for Biosensor Applications
 Dissertation Chair: L. B. Gower
- Sencer Nuri Yeralan, Bachelor of Science in Computer Engineering *cum laude*, 2006, University of Florida
 Major: *Computer Engineering*
 Dissertation: High Performance Computing with Sparse Matrices and GPU Accelerators
 Dissertation Chair: T. A. Davis
- Long Yu, Bachelor of Science, 2004, University of Science and Technology of China; Master of Science, 2010, University of Florida
 Major: *Chemistry*
 Dissertation: Rationalizing and Quantifying the Scrambling Chemistry in Peptide Sequencing: A Computational Perspective
 Dissertation Chair: N. C. Polfer

- Mohammed Zakaria, Bachelor of Science in Physiology, 2004, University of Jordan; Master in Sports Physiotherapy, 2007, Creighton University—Nebraska
Major: *Physics*
Dissertation: Measurement of the Underlying Event Activity in Proton Proton Collisions at the LHC Using the Leading Tracks
Dissertation Chair: R. D. Field
- Patricia M. Zárate Bustamante, Titulo de Biologo Marino, 1997, Universidad Catolica del Norte—Chile
Major: *Zoology*
Dissertation: Biology of the Green Turtle *Chelonia mydas* in the Galapagos Islands
Dissertation Chair: K. Bjorndal
- Xingyu Zhao, Bachelor of Science, 2008, North China Coal Medical College
Major: *Food Science and Human Nutrition*
Dissertation: Allergen Inactivation of Shelled Whole Peanuts by Pulsed Light Roasting Technology
Dissertation Chair: W. Yang
- Zheng Zheng, Bachelor of Science, 2007, Peking University—China
Major: *Chemistry*
Dissertation: Fast and Exhaustive: Development of New Protein-Ligand Scoring Algorithms and Sampling Methods
Dissertation Chair: K. M. Merz
Dissertation Co-chair: E. Deumens
- Yingjia Zhu, Bachelor of Engineering, 2006, Hunan University—China; Master of Engineering, 2009, Nankai University—China
Major: *Soil and Water Science*
Dissertation: Transport and Interaction of Colloids and Mercury in Contaminated Soil and Sand Porous Media
Dissertation Chair: L. Q. Ma
Dissertation Co-chair: W. G. Harris

DOCTOR OF EDUCATION

- Margaret JoAnne Aune, Bachelor of Science in Special Education *summa cum laude*, 2000, Master of Education in Educational Leadership, 2004, Florida Gulf Coast University
Major: *Educational Leadership*
Dissertation: Teacher Retention in Title I Schools: Effects on Student Achievement and Financial Implications in a Selected School District
Dissertation Chair: R. Wood
- Anna Cisneros Baralt, Bachelor of Arts in Finance, 1993, Master of Arts in Elementary Education, 1997, University of South Florida; Specialist in Education, 2010, University of Florida
Major: *Curriculum and Instruction*
Dissertation: Ways Digital Scaffolds Are Used During Collaborative Problem Solving in the Preschool Classroom
Dissertation Chair: K. M. Dawson
- Janine Cecelia Bertolotti, Bachelor of Arts, 2005, Wesleyan College—Georgia; Master of Arts, 2007, University of Central Florida; Specialist in Education, 2012, University of Florida
Major: *Educational Leadership*
Dissertation: Policy Implications of Select Student Characteristics and Their Influence on the Florida Biology End-of-Course Assessment
Dissertation Chair: B. Oliver
- Sarah Morgan Bond, Bachelor of Arts *summa cum laude*, 1997, University of Pittsburgh—Pennsylvania; Master of Science in English, 2009, Florida Gulf Coast University
Major: *Educational Leadership*
Dissertation: Educational Leadership Development in the Context of the United Arab Emirates: Participant Perceptions in the [XXXX] Professional Development Program
Dissertation Chair: B. Oliver

- Ian Phillip Neuhard, Bachelor of Science in English Language Arts Education, 1988, University of Central Florida; Master of Professional Studies, 1997, Alfred University—New York
 Major: *Higher Education Administration*
 Dissertation: Community College Baccalaureate Degrees in Florida: An Analysis of Enrollment Trends, Demographic Characteristics, and Systemic Impacts
 Dissertation Chair: D. F. Campbell
- Minnie D. Ogburn, Master of Science in Administration, 1991, Central Michigan University; Specialist in Education, 2008, University of Florida
 Major: *Curriculum and Instruction*
 Dissertation: Development and Evaluation of an E-Learning Guide for the Reluctant Homeschooling Parent
 Dissertation Chair: S. Kumar
- David Austin O’Neill Sr., Bachelor of Arts in Music Education *magna cum laude*, 2006, Master of Arts in Educational Leadership, 2010, Columbus State University—Georgia
 Major: *Educational Leadership*
 Dissertation: How to Attract, Employ, and Retain Highly Qualified Instructional Personnel
 Dissertation Chair: B. Oliver
- Monique Kenyatta Perry, Bachelor of Arts, 2000, North Carolina Central University; Master of Arts, 2008, Seton Hall University—New Jersey
 Major: *Higher Education Administration*
 Dissertation: An Analysis of Job Satisfaction Among Millennial Faculty at Southeastern Colleges and Universities
 Dissertation Chair: D. F. Campbell
- Kellie Wolford Roberts, Bachelor of Arts, 1983, Master of Arts in Teaching, 1985, Specialist in Education, 2009, University of Florida
 Major: *Higher Education Administration*
 Dissertation: Faculty Perceptions of Peer Observation in University Teaching
 Dissertation Chair: L. S. Behar-Horenstein
- Angel M. Rodríguez-Rivera, Bachelor of Science in Marine Biology, 1986, University of Puerto Rico at Humacao; Master of Science, 1989, University of California at San Diego
 Major: *Higher Education Administration*
 Dissertation: An Analysis of the Experiences of Transfer Students Participating in Dual Enrollment Programs in the State of Florida
 Dissertation Chair: C. A. Sandeen
 Dissertation Co-chair: D. F. Campbell
- Jill Rice Scott, Bachelor of Science, 1980, Master of Education, 1982, Specialist in Education, 2008, University of Florida
 Major: *Curriculum and Instruction*
 Dissertation: Einstein Girls: Exploring STEM Careers, Interest, and Identity in an Online Mentoring Community
 Dissertation Chair: K. M. Dawson
- Denise Michelle Voelker, Bachelor of Arts in English, 1996, Towson State University—Maryland; Master of Education, 1998, Specialist in Education, 2004, University of Florida
 Major: *Special Education*
 Dissertation: Evidence of Academic Access in Higher Education: College Programs That Include Students with Intellectual Disabilities
 Dissertation Chair: J. Repetto

DOCTOR OF AUDIOLOGY

Ingrid M. Armstrong
 Margaret Anne Arnold
 Karin C. F. Kasper Calviti
 Karen Anne Carter

Tatyana Danielova
 Maryam Mohammad-Pour Daryae
 Mabel Nike Adewale Hamrell
 Elyse Mae Jameyson
 Susan Marynewich

Muthukrishnan Nachiappan
 Hugh J. Roberts
 Melissa Sabatino
 Jennifer Lynn Schmitz

DOCTOR OF PLANT MEDICINE

Bonnie Cook Wells

Tian Xia



FREDRIC G. LEVIN COLLEGE OF LAW

DEAN Robert Jerry

JURIS DOCTOR

Ariana Marie Alfonso
Katherine Sarah Artman
Kathryn E. Bennett

Robert Alan Bonner
Priya Kolli
Matthew John Milazzo
Tara Lynn Riley

Jasmine Saleem
Ashleigh Renee Shelver
Melissa T. Strassner

COLLEGE OF PHARMACY

DEAN Julie A. Johnson

DOCTOR OF PHARMACY

Regina U. Amadi
Mercedita P. Antonio
Mark R. Bazar
Janie Davenport Beasley
Edward R. Bezarro
Gina Marie Bienemann
Kwame O. Boateng
Tina Caliendo
Lucrecia M. Campisi
Diane Ramona Caracciola
Claudia Chi Kiu Chan
Jianhong Che
John Vincent Chiavetta
Soojung Choi
Gregory T. Clark
Andrea Martin Craven
Nikki R. Curtis

James Thomas DaRosa
Prashanth Deshpande
Dian D. English
Diego Guevara
Candace Y. Guyton
Deborah A. Hallett Howie
Adekemi A. Ibrahim
Jacqueline Dawn Jessie
Laura Susan Johns
Gary Leroy Jones
Lucas Kemeni
Greta L. Kemmer
Shama Qamar Khan
Jong-Min Jonathon Kim
Nevina Kishun
Jeremy Owen Larkin
Melissa Chuen Li Lim
Maged A. Makar

Christina Anne McCaw
Antoinette T. McDaniel
Joyce Ann Means
Connor Alexandra Moggach
Chinyere N. Muoka
Gloriz M. Nelson
Ahunna Chituru Okoye
Margaret Marie Rivera
Adekemi T. Shoyinka
Jennifer L. Soular
Karen L. Speed
Arie R. Spitzfaden
Gregory Robert Tausz
Sabitha Roselyn Thomas
Anthony Raymond Villafan
Marsha S. Wong
Leighanne Young



What Makes a University Great?

Some interesting facts about the University of Florida

Educational Excellence

UF is consistently ranked among the nation's top universities: No. 14 in U.S. News & World Report "Top Public Universities" (August 2014); No. 3 in Kiplinger's "Best Values in Public Colleges" (2013) and No. 7 in the Princeton Review Best Value Public Colleges (2012).

Job recruiters ranked UF ninth on the list of Top 25 places where corporations prefer to recruit new employees (Wall Street Journal, 2010). UF also ranks No. 2 on SmartMoney magazine's list of universities whose graduates get the highest salary return for their tuition dollars (2012); No. 3 on SmartMoney magazine's list of colleges and universities that help graduates get top salaries (2011); and No. 6 on Payscale.com's list of universities that offer the best return on investment for undergraduate education (2011). UF ranked 21st in the National Universities category of the 2012 Washington Monthly magazine College Rankings.

Faculty

- UF has 4,215 faculty members with distinguished records in teaching, research and service, including 40 Eminent Scholar chairs and 28 faculty elections to the National Academy of Sciences, Engineering, the Institute of Medicine, or the American Academy of Arts and Sciences.
- Awards include a Fields Medal, two Pulitzer Prizes, NASA's top award for research, and Smithsonian Institution's conservation award.

Students

- The fall 2013 incoming freshman class had an average 4.2 GPA and 1900 SAT score.
- UF admitted 1,375 International Baccalaureate students — more than any other university in the U.S. — in fall 2011.
- More than 90 percent of incoming freshmen score above the national average on standardized exams.
- The freshman retention rate of 96 percent is among the highest in the country.
- Sixty-five percent of UF freshmen graduate in four years, and 83 percent graduate in six years.
- Nearly two-thirds of UF graduates leave the university with no student loan debt. For the remaining third, their average indebtedness is about \$17,000, as compared with the national average of roughly \$27,000.



2013 FALL
COMMENCEMENT





Chain of Office

The chain of office is an ornament worn with the president's academic regalia symbolizing the authority and responsibilities incumbent with the office. The chain was presented in 2004 during the installation ceremony of President J. Bernard Machen. The medallion centerpiece is a 1.3-carat orange diamond engraved with the portraits, names and service years of the university's 11 presidents. The Major Analytical Instruments Center at UF used ion beam engraving technology on the medallion. Also on the medallion are three .025-carat blue diamonds placed around the silhouette of the Century Tower and University Auditorium, signifying teaching, research and service. All four diamonds, donated by Gemesis

Corp. of Sarasota, Florida, were grown using a process developed and patented by UF's Department of Materials Science and Engineering.

Academic Mace

"Honoring the Past, Shaping the Future" was the signature of the University of Florida's sesquicentennial celebration in 2003. It also was the inspiration for the ceremonial mace created and dedicated to mark this historic event. The mace dates back to the Middle Ages and symbolizes strength and authority; each is unique and reflects the values and characteristics of the institution. The university's chief marshal, who leads all academic processions, carries the mace. Designed and crafted on the University of Florida campus, the mace artfully symbolizes those elements important to the university's identity and history.



The 70-inch ceremonial staff combines traditional elements with modern styling. The stylized alligator rests on the globe signifying the University of Florida as an adaptable global leader in teaching, research and service. The four pillars supporting the globe represent the four original colleges; Agriculture, Engineering, Liberal Arts and Law. The cone holds the University of Florida Seal and words to the Alma Mater. The staff is carved from native cherry wood. The acorn finial depicts the adage "from tiny acorns mighty oaks do grow," a commitment to life long learning. The brick pattern on the handle symbolizes higher education tradition and structure. Like the institution it represents, the mace is not static; growth and movement are expressed with loose rings engraved with the names of the university's presidents and their years in office.

UF

2013 FALL
COMMENCEMENT

Diplomas

Diplomas will be mailed to the graduate's permanent home mailing address in February 2014. The permanent home mailing address can be verified through "My Account" – update my directory profile at my.ufl.edu.

Caps and Gowns, An Explanation

The academic attire worn by faculty and graduating students at today's commencement ceremony evolved from a style of dress worn by members of guilds and religious orders in medieval times. The black academic gown signifies that the individual wearing it has earned a degree in higher education.

Distinctions in the sleeve shape indicate the type of degree held by the wearer of the black gown. A round, open sleeve identifies a doctoral degree; by comparison, a long, pointed sleeve indicates a bachelor's degree, while a long, closed sleeve with a slit near the upper part of the arm designates a master's degree.

The doctoral costume also has velvet bands down the front of the gown and velvet cross bars on the sleeves. The trimming may be black, or it may match the color of the velvet hood edging. Colored tassels on the degree candidates' caps indicate a candidate's school or college.



Graduate candidates also wear a hood. At the University of Florida the lining of the hood has a blue chevron on an orange background.

In keeping with standards established for American universities in the late 19th century, the color of the velvet edging on the academic hood represents the wearer's particular degree. White, used for the study of arts and letters, was inspired by the white fur trimming of the Oxford and Cambridge bachelor of arts hoods. Green was selected for medicine to reflect the color of medieval herbs, while golden yellow was chosen for the sciences to represent the wealth crated by scientific research.

The following colors are specific to the University of Florida:

Agriculture and Life Sciences; Forest Resources and Conservation - Maize
Design, Construction and Planning; Building Construction - Blue-Violet
Audiology - Colonial Blue
Business Administration, Accounting - Drab
Dentistry - Lilac
Education - Light Blue
Engineering - Orange
Fine Arts - Brown
Journalism and Communications - Garnet
Law - Purple
Liberal Arts - White
Liberal Sciences - Gold-Yellow
Medicine - Green
Music - Pink
Natural Resources and Environment - Antique Gold
Philosophy - Royal Blue
Public Health - Salmon-Pink
Rehabilitation Counseling - Nile Green





UF

Alma Mater

*Florida, our Alma Mater
Thy glorious name we praise
All thy loyal sons and daughters
A joyous song shall raise.
Where palm and pine are blowing,
Where southern seas are flowing,
Shine forth thy noble Gothic walls,
Thy lovely vine-clad halls.
Neath the Orange and Blue victorious
Our love shall never fail.
There's no other name so glorious—
All hail, Florida, Hail!*

Milton Yeats