Academic Affairs Annual Report - 2011-12

The past year has been one of many accomplishments by faculty members and students, tempered by a continued dwindling of state support. It is very clear that faculty and staff are performing well beyond the resources provided, demonstrating the commitment of our UCF employees. The impact of the combined budget cuts over the past several years has led to some of our best faculty considering offers at other universities. The departure of key faculty members and the budgetary limits on hiring new faculty members have the potential to significantly impact our research and educational performance. It is clear that UCF must find a way to hire more faculty and devote additional resources to research activities.

The Division of Academic Affairs again made significant contributions toward the university’s five goals in 2011-12, increasing the quality of and access to university resources. Some key data points include:

- Fall 2011 FTIC student average SAT score: 1250, an increase of 13 points
- Fall 2011 average high school GPA for incoming students: 3.87, an increase of 0.05 points
- 2011-12 enrollment in The Burnett Honors College: 1,797, an increase of 6.8 percent
- The Burnett Honors College student average SAT score: 1387, an increase of 8 points
- 2011-12 Honors in the Major enrollment: 397, an increase of 3 percent
- Fall 2011 National Merit Scholars: 74, an increase of 64 percent
- Fall 2011 African-American and Hispanic enrollment: 16,129, an increase of 10 percent
- 2011-12 minority scholarships: 259
- 2011-12 distance learning student credit hours
  - web or video courses: 405,223, an increase of 12 percent
  - reduced seat time courses: 96,081, an increase of 5.1 percent
- Summer and Fall 2011 admitted FTIC full-time student retention rate: 87.3 percent, an increase of 0.6 percent
- student enrollment in service-learning courses: 9,786, an increase of 22.6 percent
- Summer 2011-Spring 2012 degrees awarded:
  - bachelor’s degrees: 11,682, an increase of 8.0 percent
  - master’s degrees: 2,391, an increase of 7.2 percent
  - graduate certificates: 349, an increase of 19.5 percent
  - doctoral degrees: 265, a decrease of 7.0 percent
- secured extramural funding: $128.7 million, an increase of 20.7 percent
- FIEA’s graduate game design program ranked fourth in 2012 by The Princeton Review
- real estate program ranked fifth by International Council of Shopping Centers
- sport business management program ranked in top five such programs by The Wall Street Journal and ESPN The Magazine
- Forbes ranked UCF in the top 50 most affordable colleges and universities in the United States
- Kiplinger and The Princeton Review named UCF one of the best values in the country
- 2011-12 U.S. News & World Report national rankings:
  - UCF ranked fourth “up and coming” school, 97th of public institutions, and in top 20 percent of colleges and universities for SAT averages
  - graduate program and college rankings:
    - counseling 11th
    - special education 14th
    - nonprofit management 25th
    - criminal justice 26th
    - healthcare management 46th
    - industrial engineering 48th
    - computer science 54th
    - computer engineering 57th
    - public administration 59th
    - electrical engineering 62nd
    - environmental engineering 68th
    - College of Engineering and Computer Science 70th
    - school of engineering 74th
    - materials engineering 74th
    - College of Nursing 79th
    - civil engineering 81st
    - communication sciences and disorders 87th
    - social work 89th
    - physical therapy 99th
    - College of Education 100th
Goal 1: Offer the best undergraduate education available in Florida

- Burnett Honors College students were awarded prestigious scholarships and fellowships and included a Goldwater Scholar, three Gilman Scholars, a Boren Scholar, a Pickering Undergraduate Fellow, and a National Defense Science and Engineering Graduate Fellow; and nine received NSF Graduate Research Fellowships
- CAH students won top two places in the Jane Austen Society of North America essay contest; two recent theatre graduates won roles in the Broadway production of Rock of Ages; the Jazz Ensemble’s CD, Jazz Town, ranked 43rd on Jazz Charts Top 100; a junior acting student awarded Distinguished Performance by an Actress by the Kennedy Center American College Theatre Festival
- CBA team placed third in National Collegiate Sales Competition; Sport Business Management team won NASCAR Kinetics case study competition
- CECS students won first place in the Biological Materials Science poster competition of the Minerals, Metals and Materials Society; third place HVAC Design from American Society of Heating, Refrigerating and Air-Conditioning Engineers; second place in Utility Endurance and third place in Utility Vehicle Class at the American Society of Mechanical Engineers competition
- pass rate on the American Health Information Management Association certification exam for UCF graduates was 100 percent (national rate is 74 percent); pass rate on national certification exam for athletic trainers was 96 percent (national rate is 82.3 percent); Sandy Hermann was named one of two Outstanding Students of the Year by the Florida Health Information Management Association
- COM students received Best Presentation Awards at the Florida Branch of the American Society for Microbiology; three students received scholar-athlete awards from the Conference USA Commissioner’s Academic Medals; Medical Laboratory Sciences students had a 100 percent pass rate on the American Society for Clinical Pathology National Certification exam; and two MLS students received National Student Honor Awards from the ASCP
- CON students had a 96 percent pass rate on the National Council Licensure Examination (national rate is 88 percent); Jennifer Creiger was elected to the Florida Student Nurses Association Executive Board
- for her work with coastal and estuarine research, COS faculty member Linda Walters was named the William A. Niering Outstanding Educator
- 378 students participated in the Showcase of Undergraduate Research Excellence, and 100 students participated in the Summer Research Academy
- The Princeton Review named COHPA Health Professions’ Steve Lytle one of The Best 300 Professors
- Regional Campus's Krisann Draves received the Florida Nursing Association's Heather Scaglione Award for her outstanding support of her students
- CED received the Innovative Use of Technology Award from the American Association of Colleges of Teacher Education for the TLE TeachLIVE™ Lab

Goal 2: Achieve international prominence in key programs of graduate study and research

- 32 researchers received in excess of $1 million in funding in 2011-12; top thirteen amounts were each over $2.2 million and were awarded to David Block, Eunice Choi, Andrew Daire, Philip Fairey, Michael Georgiopoulos, Lynn Hansen, Daniel Hull, Stephanie Lackey, Tom O’Neal, Brian Plamondon, Martin Richardson, Ernest Smart, and Rosemarye Taylor
- Andre Gesquiere and Sudipta Seal were awarded a 2012 NSF Research Experience for Undergraduates to engage ten students in research and activities focused on nanomaterials and energy applications
- Be Boyd was awarded the Distinguished Performance by a Faculty Guest Artist by the Kennedy Center American College Theatre Festival
- C. Suryanarayana was listed 40th of the top 100 researchers in the field of materials science and was named the Jefferson Science Fellow by the National Academies
- Chengying Xu received the Richard L. Kegg Outstanding Young Manufacturing Engineering Award by the Society of Manufacturing Engineers
Diane Davey received the College of American Pathologists Lifetime Achievement Award and was named president of the American Board of Pathology for 2012.

Engineering students won first place in the U.S. Department of Energy’s Clean Energy Challenge business plan competition for renewable energy companies.

Eric Van Stryland received the Optical Society Wood Prize for outstanding discovery, scientific or technical achievements, or invention in the field of optics.

Graduate statistics students won the 2011 SAS Data Mining Shootout over 60 other universities.

Humberto Campins was selected to be on the Science Team of NASA’s OSIRIS Rex mission.

Kerstin Hamann was elected vice president of the American Political Science Association.

Linwood Jones received the NASA Group Award for Development of Hurricane Imaging Radiometer.

Louis Chow received the 2012 Allan Kraus Thermal Management Medal from the American Society of Mechanical Engineers.

Mark Pinsky received from the Florida Magazine Association the first place award for in-depth reporting.

Martin Stickley was elected fellow of the Directed Energy Professional Society.

Melody Bowdon received the Florida Campus Compact Award for Excellence in Faculty Research.

Nadine Dexter achieved Distinguished Status from the Academy of Health Information Professionals.

National Research Council ranked UCF’s electrical and computer engineering programs #6 out of 136 in terms of research productivity in the U.S.

Peter Delfyett and Eric Van Stryland were two of eight elected fellows of the American Physical Society.

Pieter Kik was named editor of the Optics Communications journal.

H.G. Parsa and Youcheng Wang were named in the Top 50 Researchers in Hospitality Management in the world by the Journal of Hospitality and Tourism Research.


Robert Chandler was the winner of the 2011 Ronald K. Mengel award from the Fire Protection Research Foundation.

Sasan Fathpour was elevated to Senior Member of SPIE, the international society for optics and photonics.

Thomas Wu was named a Senior Research Fellow by the National Research Council Air Force Research Lab.

UCF incubator clients won Outstanding Incubator Client of the Year and Outstanding Incubator Graduate of the Year from the National Business Incubation Association.

Zheng Shen received the 2011 IEEE Region 3 Outstanding Engineer Award.

Goal 3: Provide international focus to our curricula and research programs

38 new international agreements were established with 10 countries.

One faculty member and two students were awarded Fulbright fellowships.

Fulbright Hayes Group Project Abroad program funded twelve CED students to learn about comparative education in Botswana, South Africa.

20 Executive M.B.A. students participated in internships in Hong Kong and Ho Chi Minh City.

Faculty members transformed six courses into new short-term study abroad programs serving 73 students.

337 students participated in short-term study abroad programs in 23 countries.

188 students participated in reciprocal exchange programs in 13 countries.

COM and CON students and faculty members traveled to the Dominican Republic to provide short-term medical care.

Eight senior policing delegates from Singapore came to campus to work with our criminal justice students.

RCHM hosted Kyung Hee University’s month-long Summer Study Program; faculty collaborated on research with colleagues in China, Aruba, and Curacao.

COHPA students studied at-risk children in Nicaragua and Jamaica.

CED graduate students from Switzerland, Mexico, and Qatar participated in classes via teleconferencing.

Bilingual program sent 35 students to Spain to serve as elementary teachers.
• COHPA faculty member participated in establishing three human rights centers in Russia
• students participated in international service-learning projects in the UK, St. Kitts, and Nevis
• Carol Saunders named senior research fellow at University of Erlangen-Nuremberg
• COHPA faculty members researched brain and language in Hong Kong, Australia, and Ireland; served as consultants on stuttering and assessment tests in Belgium, Brazil, Argentina, Slovenia, and France; researched the supply and demand of professional health care in 15 countries; and researched fiscal decentralization and health care in China
• CBA research conducted with Friedrich Alexander University in Germany and Indian University in India; research presentations given in Munich, Germany; the Netherlands; Australia; Taiwan; Hong Kong; and Nice, France
• COS faculty members served as external examiners at the National Institute of Technology in two locations in India; conducted archaeological projects in the Bahamas, Mexico, Bolivia, and Belize; collaborated to monitor expansion of invasive plant species with Spain, Australia, and Germany; served as external examiner for the Forensic Science Unit at the University of Strathclyde, Scotland; created a Research Group at King Saud University; collaborated with Fritz-Haber Institute of the Max Planck Society in Germany and Danish Technical University in Denmark
• RCHM’s new graduate certificate in hospitality management welcomed 18 students from Italy, Brazil, Finland, Croatia, Belarus, Ireland, Bolivia, and the UK
• COM conducted research with 33 countries on the impact of the Orbis Cyber Site teleretinal program on management of retinal disease
• CAH co-hosted a conference in Moscow with Russian State University for the Humanities

Goal 4: Become more inclusive and diverse

• Dean José Fernández was named one of central Florida’s 25 most influential Hispanics by Vision Magazine
• Center for Multicultural Multilingual Studies served 1,918 students from 81 countries
• International Services Center served 7,223 students from 136 countries
• Diverse Issues in Higher Education ranked UCF among the nation’s top ten schools in awarding degrees to minority students, placing fifth in awarding engineering graduate degrees to Hispanic students, 12th for total undergraduate degrees awarded to Hispanic students, and 18th for total undergraduate degrees awarded to African-American students
• 71 faculty members currently participate in the Provost’s Diversity Enhancement Program, which supports the hiring of tenured and tenure-track faculty members as well as university librarians to increase diversity and attract underrepresented faculty members in certain academic disciplines
• Zora Neale Hurston Institute for Documentary Studies collects and documents the cultural histories of marginalized communities
• Nicholson School of Communication hosted the annual conference of the National Association of Hispanic Journalists

Goal 5: Be America’s leading partnership university

• 17 companies graduated from and 67 new clients joined the Business Incubator Program; five additional start-up companies were based on UCF technologies, and eleven others were formed under UCF-managed economic development programs
• photonics faculty members engaged in 47 research projects funded by companies including AT&T, Lockheed Martin, NEC, KLA-Tencor, Radiance, Trumpf, ITRI Display, and Raytheon
• Florida Solar Energy Center collaborated with the Virgin Islands Energy Office on specifications for renewable energy projects
• researchers in the NanoScience Technology Center partnered with Florida Hospital Cancer Institute to develop a test to determine how aggressive prostate cancer cells are likely to be, providing important treatment information
• Regional Initiative for Collecting the History, Experiences, and Stories of Central Florida (RICHES) program hosted Veteran’s Week workshops for the public
• the School of Visual Arts and Design hosted eight public events
• 13 theatre productions with multiple presentations and 16 film events were offered
• over 250 public (most free) recitals and concerts were hosted
• over 40 master classes and workshops in music for the public were provided
• Robinson Observatory provided Open Houses free to the public
• Orlando Repertory Theater hosted summer camps for youth
• Pegasus Health is providing primary care to local residents
• hospitality faculty members served as consultants for a delegation from the Mpumalanga region of South Africa
• Regional Campus's Cece Rivers was elected to the West Orange Chamber of Commerce and the United Way of Lake and Sumter Counties
• faculty members in education, sciences, engineering, and business provided professional consultations, including forensic work with the Orange County Medical Examiner and participated in local and national media interviews
• Jay Hoffman was invited to serve on the National Athletic Trainers Association Task Force on Preventing Sudden Death in Collegiate Conditioning Sessions
• Small Business Development Center received the Excellence in Economic Development Award for Entrepreneurship from the International Economic Development Council
• two SBDC clients named to the list of top 500 fastest growing companies in America by Inc. magazine

Activities that supported more than one goal included:

• University Writing Center staff conducted 10,996 consultations with undergraduate students from ten colleges
• Faculty Center for Teaching and Learning provided 22 types of development activities involving over 9,000 instances of participation by faculty members in 49 departments
• three videos created by ITR’s Leve2 Productions were selected for Communicator Awards
• campus librarians accommodated 18,259 requests from graduate students and 5,623 from faculty researchers for customized assistance including interlibrary loans and scanning articles
• faculty members published more than 106 books, 262 book chapters, 1,949 peer-reviewed journal articles, and 493 conference proceedings and gave 294 invited exhibitions or performances and 2,866 peer-reviewed conference presentations