



UNIVERSITY OF CENTRAL FLORIDA

**Board of Trustees Meeting
Educational Programs Committee**

July 19, 2018

11:00 a.m. – 12:00 p.m.

FAIRWINDS Alumni Center

Conference call in phone number 800-442-5794, passcode 463796

AGENDA

I. CALL TO ORDER

Robert Garvy
Chair, Educational Programs Committee

II. ROLL CALL

Gwen Ransom
*Executive Administrative Assistant to
Dr. Paige Borden*

III. MEETING MINUTES

Robert Garvy

- [Approval of the May 24, 2018, Educational Programs Committee meeting minutes](#)

IV. NEW BUSINESS

- 2018 Tenure with Hire ([EPC-1](#))
Jana Jasinski
*Vice Provost for Faculty Excellence
Pegasus Professor of Sociology*
- Academic Degree Program Termination
Master of Science in Conservation Biology
([EPC-2](#))
M. Paige Borden
*Associate Provost for Academic Program Quality and
Associate Vice President for Institutional Knowledge
Management*
- Conferral of Degrees ([EPC-3](#))
Elizabeth A. Dooley
*Interim Provost
Vice Provost for Teaching and Learning and
Dean, College of Undergraduate Studies and
Professor, College of Education and Human Performance*
- Doctoral Analysis – Part 1 ([INFO-1](#))
M. Paige Borden

- Provost Update Elizabeth A. Dooley
- Faculty Spotlight
Broadening Access to STEM ([INFO-2](#)) Megan Nickels
Assistant Professor, STEM Education
College of Education and Human Performance
- Valencia College Notice of Intent
([INFO-3](#)) Elizabeth A. Dooley

V. OTHER BUSINESS



UNIVERSITY OF CENTRAL FLORIDA

**MINUTES
Board of Trustees
Educational Programs Committee
May 24, 2018
Fairwinds Alumni Center**

CALL TO ORDER

Trustee Robert Garvy, chair of the Educational Programs Committee, called the meeting to order at 9:45 a.m. Committee members Josh Bolona, Ken Bradley, Beverly Seay, and Bill Self were present, trustee Danny Gaekwad joined the meeting via teleconference call. Trustees Alex Martins and David Walsh were also present.

MINUTES

The March 22, 2018, meeting minutes were approved as written.

NEW BUSINESS

2018 Tenure Recommendations (EPC-1)

Elizabeth Dooley, Interim Provost, requested approval for the 2018 tenure recommendations. Thirty-seven faculty members were recommended for tenure. A motion to grant approval of tenure received unanimous approval.

Tenure with Hire (EPC-2)

Elizabeth Dooley requested approval for the 2018 tenure with hire for one faculty member. A motion to grant approval of tenure with hire received unanimous approval.

2018 Accountability Plan (EPC-3)

Paige Borden, Associate Provost for Academic Program Quality and Associate Vice President for Institutional Knowledge Management presented the 2018 Accountability Plan for approval. This plan combines the previous Annual Accountability Report and University Work Plan into one document. A motion to grant approval of the 2018 Accountability Plan received unanimous approval.

2018 Improvement Plan for Four-year Graduation (EPC-4)

Paige Borden presented the 2018 Improvement Plan for the Four-year Graduation Rate for approval. This improvement plan is an addendum to the 2018 Accountability Plan. A motion to grant approval of the 2018 Improvement Plan for the Four-year Graduation Rate received unanimous approval.

Provost's Update

- **Faculty Spotlight (INFO-1)**

Interim Provost Dooley introduced Dr. Konstantin Vodopyanov, Professor of Optics, College of Engineering and Computer Science. Dr. Vodopyanov introduced technology he developed to detect trace amounts of chemicals in a person's breath with the use of infrared lasers that measure vibrations.

- **Personnel Updates**

Dooley updated the board on the following personnel changes:

Promotion of Dr. Jana Jasinski from Interim Vice Provost to Vice Provost for Faculty Excellence.

Arrival of Dr. Sheila Piñeres, Dean of the Burnett Honors College.

- **Academic Reorganization Naming**

Interim Provost Dooley presented the names of two new colleges as part of the reorganization to bring together programs in key areas:

College of Health Professions and Sciences – joins the Academic Health Sciences Center with College of Medicine and College of Nursing; and

College of Community Innovation and Education – which will focus on pillars of thriving, modern cities, such as civic engagement and governing, safety and justice, and health and well-being.

Chairman Garvy adjourned the meeting at 10:45 a.m.

Respectfully submitted: _____
Elizabeth A. Dooley
Interim Provost

Date

ITEM: EPC-1

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: 2018 Tenure with Hire

DATE: July 19, 2018

PROPOSED BOARD ACTION

Approval of tenure with hire.

BACKGROUND INFORMATION

New faculty members are hired each year with tenure. Normally, such faculty members have earned tenure at their previous institution and meet UCF's requirements for tenure. For others, tenure is part of the hiring package when senior faculty members are hired for administrative positions. Department faculty members and the university's administrative officers have approved granting tenure to these faculty members.

Supporting documentation: Attachment A: Tenure with Hire Justification

Prepared by: Jana L. Jasinski, Vice Provost for Faculty Excellence and Pegasus Professor of Sociology

Submitted by: Elizabeth A. Dooley, Interim Provost and Vice Provost for Teaching and Learning, Dean, College of Undergraduate Studies and Professor, College of Education and Human Performance

Attachment A

**Tenure with Hire Justification
Board of Trustees Meeting
July 19, 2018**

**Roger Azevedo, Professor
College of Education and Human Performance, Department of Educational and
Human Sciences**

Dr. Roger Azevedo received his Ph.D. in educational psychology from McGill University. This was followed by a fellowship in psychology at Carnegie Mellon University. Prior to joining UCF, he was a tenured professor in the Department of Psychology at North Carolina State University, where he also was affiliated with the Department of Computer Science and held an appointment as Faculty Fellow at the Center for Geospatial Analytics. He previously held academic positions at the University of Maryland, the University of Memphis and McGill University, including Endowed Senior Canada Research Chair at the latter. Dr. Azevedo is recognized internationally as editor-in-chief of the *Metacognition and Learning* journal and co-editor of the *International Handbook of Metacognition and Learning Technologies*. He has collaborated on one book, 19 book chapters and 69 journal articles and has received over \$20 million in funding over his career. He has over \$9 million in current funding and over eight grant submissions under review totaling over \$22M. He has graduated over 20 Ph.D. students and supervised four post-docs. At UCF, Dr. Azevedo will be senior researcher in the Learning Sciences Cluster. The Department of Educational and Human Sciences and the College of Education and Human Performance support the recommendation for tenure with hire.

**Dr. Parag Banerjee, Associate Professor
College of Engineering and Computer Science, Department of Materials Science and
Engineering**

Dr. Parag Banerjee received his Ph.D. in materials science and engineering from the University of Maryland. He comes to UCF from Washington University in St. Louis, where he was an assistant professor in the Department of Mechanical Engineering and Materials Science. Dr. Banerjee's research interests span the science and engineering of Atomic Layer Deposition, a process where material is deposited one atomic layer at a time. He has published over 40 articles in peer-reviewed journals and holds eight U.S. and international patents. He has garnered \$1.76 million of extramural research funding from National Science Foundation, Army Research Office and corporations such as Boeing Defense and Merck. He has graduated four Ph.D. students and three master's students, and has mentored two postdoctoral scientists. Dr. Banerjee played a key leadership role in building Washington University's "Cleanroom," a shared user facility for synthesizing nanomaterials. He also led the initiative for a new University consortium – "Solar Energy – Energy Storage," a network of eight international universities developing a common hardware platform for renewable energy reliability assessment. At UCF,

he will be an integral member of the Energy Conversion and Propulsion Cluster. The Department of Materials Science and Engineering and the College of Engineering and Computer Science support the recommendation for tenure with hire.

Mr. David Bjella, Professor
College of Arts and Humanities, School of Performing Arts

Mr. David Bjella received his Master of Music in cello performance from the Peabody Conservatory of Music. He comes to UCF from Stetson University, where he was a tenured professor of music. He has taught worldwide at festivals and his students have performed widely. He was principal cellist with the Orquestra De Pernambuco and co-principal cellist with the IRIS Orchestra, The Quartz Mountain Music Festival and the Interlochen Faculty Orchestra. He was a principal cellist with the Orlando Philharmonic, and has also played with the Cincinnati Symphony Orchestra, the Florida Symphony and the Bellingham Festival Orchestra. Mr. Bjella has extensive experience with chamber ensembles, is an avid recruiter and a widely respected musician. He has several recordings, one of which was on the *New York Times* top ten list. He has extensive experience as a scholar and has an excellent service record. He has been a guest faculty member for the past year and has proven invaluable to the UCF string program. The School of Performing Arts and the College of Arts and Humanities support the recommendation for tenure with hire.

Christa L. Cook, Associate Professor
College of Nursing, Department of Nursing Systems

Dr. Christa L. Cook earned her Ph.D. in nursing sciences at the University of Florida, with a minor in public health. She comes to UCF from the University of Florida College of Nursing, where she was an assistant professor. At UCF, she will fill the newly created population health position and will assume the lead role in the epidemiology course. Dr. Cook's major area of research is HIV prevention and management. She works collaboratively across disciplines and with practitioners from the Florida Department of Health on this research. She has published in highly respected nursing and inter-professional journals and has presented numerous peer-reviewed and invited papers, both nationally and regionally. She brings external NIH funding as a co-investigator on the Southern HIV/AIDS Alcohol Research Consortium, and plans to expand this research to a site in Orlando. Dr. Cook is nationally recognized as a leader in the American Public Health Association, where she chairs the research committee of the Public Health Nursing section. She is a board member and past chair of the regional Ryan White Care Consortium, and a representative to the State of Florida HIV Prevention Planning Group. The Department of Nursing Systems and the College of Nursing support the recommendation for tenure with hire.

Dr. Tyler Fisher, Associate Professor
College of Arts and Humanities, Department of Modern Languages and Literatures

Dr. Tyler Fisher earned his doctoral degree (D.Phil.) in medieval and modern languages from the University of Oxford. He comes to UCF from the University College London, where he has been a tenured lecturer in Peninsular Spanish literary studies. Dr. Fisher has been teaching at the university level since Fall 2005 at University of Oxford and University College London. He has

published widely in the field of early modern Spanish literature (primarily poetry) and has a monograph forthcoming with Oxford University Press. He has extensive teaching experience, and has supervised the research of undergraduate and graduate students. It is anticipated that his strongest impact on the department will be through his developing role in UCF's internationalization efforts and the Honors College. The Department of Modern Languages and Literatures and the College of Arts and Humanities support the recommendation for tenure with hire.

**Timothy A. Gilbertson, Professor of Medicine
College of Medicine, Department of Internal Medicine**

Dr. Timothy Gilbertson earned his Ph.D. in zoology: neurobiology at the University of California, Davis. This was followed by postdoctoral training in anatomy and neurobiology at Colorado State University. He comes to UCF from Utah State University, where he was a tenured professor of biology. Dr. Gilbertson is a neurobiologist with expertise in molecular biology, cellular biology and behavior analysis. A major focus of his research is the study of chemosensation for taste and its role in the neurobiology of appetite, food intake, satiety, obesity and nutrition. He has extensive publications in top tier journals and presentations at high impact scientific meetings, as well as continuous funding from National Institutes of Health (NIH) since 1991. His extramural funding has amounted to approximately \$7 million, including National Science Foundation support. He has an active NIH R01 award through 2019. He has served on numerous NIH study sections, including the role of chair. Dr. Gilbertson has extensive teaching experience at the undergraduate, master's and doctorate levels. He has been a highly successful mentor for graduate students, as supported by their subsequent successes, and is the recipient of the Outstanding Graduate Mentor award at Utah State University. The Department of Internal Medicine and the College of Medicine support the recommendation for tenure with hire.

**Jascinth L .M. Lindo, Associate Professor
College of Nursing, Department of Nursing Systems**

Dr. Jascinth L. M. Lindo earned her Ph.D. in public health and Master of Science in nursing education at the University of the West Indies, Jamaica. She comes to UCF from Barry University in Miami, where she was a tenured associate professor. Dr. Lindo focuses on two major areas of scholarship: Caribbean, primarily Jamaican, health problems and care systems; and nursing pedagogy and work place issues. She has served as a research consultant to the Jamaican Ministry of Health, and has achieved university funding and external funding from the Pan American Health Organization and the Jamaican National Health Fund. Dr. Lindo has authored 29 publications in U.S. and international journals and books, with two more under review. She has regularly presented peer-reviewed and invited papers and posters at international, national and regional conferences for a total of 69 presentations. Dr. Lindo has taught undergraduate and graduate nursing students, and has served on and chaired numerous Ph.D. and master's committees. She has a strong record of public service in Jamaica and Broward County, and an excellent record of college and university service. The Department of Nursing Systems and the College of Nursing support the recommendation for tenure with hire.

**Dr. Christo Pirinsky, Associate Professor
College of Business Administration, Department of Finance**

Dr. Christo Pirinsky received his Ph.D. in finance from The Ohio State University. Prior to joining UCF, he was a financial economist at the U.S. Securities and Exchange Commission. He previously was Senior Economist at Cornerstone Research and held academic appointments at Texas A&M University, California State University, Fullerton and George Washington University. Dr. Pirinsky has a very strong record of academic research publications, with five premium publications in the very top journals of the discipline and seven publications in the highly respected next tier of academic journals in the discipline. He has a rich pipeline of ongoing research and three of his working papers have been invited for resubmission at top-tier academic journals in the areas of economics, finance and law. He has taught undergraduate and graduate courses and received a doctoral program teaching award at George Washington University. He has served on nine Ph.D. dissertation committees. Dr. Pirinsky will be a tremendous asset for the Department's FinTech initiative, as well as its doctoral program. The Department of Finance and the College of Business Administration support the recommendation for tenure with hire.

**Gary D. Rhodes, Associate Professor
College of Arts and Humanities, School of Visual Arts & Design**

Dr. Gary D. Rhodes earned his doctorate (D.Phil.) in film studies at The Queen's University of Belfast. He comes to UCF from The Queen's University of Belfast, where he was a tenured lecturer and head of film studies, as well as postgraduate director of film studies. Dr. Rhodes has authored twenty books, edited various anthologies, and published many academic essays. He has been involved with professional filmmaking since 1991. He works in both fiction and nonfiction modes, making films, television programs, and commercials. In 2016, *The Guardian's* league tables (the equivalent of *US News and World Report's* college rankings) ranked Dr. Rhodes' program as the number one filmmaking department in the United Kingdom. He has been involved with successful internal and external funding for his department. Dr. Rhodes would bring high levels of scholarship and creative activity to the film program, along with administrative experience and expertise to support faculty and undergraduate students while growing the graduate program. The School of Visual Arts and Design and the College of Arts and Humanities support the recommendation for tenure with hire.

**Luis Santiago, Associate Professor
College of Health and Public Affairs, School of Public Administration**

Dr. Luis Santiago received his Ph.D. in city and regional planning from Cornell University. Prior to joining UCF, he was a tenured professor at the University of Puerto Rico. He is an expert in environmental conservation and urban policy and has an established record of scholarly work. Dr. Santiago has published in interdisciplinary and planning journals and presented at national and international conferences. He has had substantial involvement in funded research projects, including awards from the National Science Foundation and National Aeronautics and Space Administration. His interdisciplinary work will support university-wide initiatives at UCF, such as smart cities and urban resilience. His background in working with diverse

communities on a variety of salient urban planning and policy issues through service learning and applied planning projects provides the foundation for new course development. His experience in program management, including curriculum review and advancement, student mentorship, engaging program stakeholders and alumni, and representing his program on college and university level committees will be an asset for the school. The School of Public Administration and the College of Health and Public Affairs support the recommendation for tenure with hire.

Yan Solihin, Professor
College of Engineering and Computer Science, Computer Science

Dr. Yan Solihin earned his Ph.D. in computer science from the University of Illinois. He comes to UCF from North Carolina State University, where he was a tenured professor in the Department of Electrical and Computer Engineering. Since 2016, Dr. Solihin has been on assignment at the National Science Foundation (NSF) in the Division of Computer and Network Systems, where he serves as one of the primary program directors for Secure and Trustworthy Cyberspace. He was inducted into the High Performance Computer Architecture Hall of Fame and is a senior member of the Institute of Electrical and Electronics Engineers. Dr. Solihin is the recipient of over \$4.2 million in funding, including awards from NSF and corporations such as Samsung, Intel and IBM. He has published more than 90 papers in computer architecture and systems and has authored more than 40 patents. His H-index is 31 with over 4,800 citations of his work. He has presented numerous peer-reviewed and invited papers worldwide. He has graduated 13 Ph.D. students and 8 master's students who have collectively gone on to work at well-known institutions. At UCF, he will lead the Cyber Security and Privacy Cluster. The Department of Computer Science and the College of Engineering and Computer Science support the recommendation for tenure with hire.

Nora Warshawsky, Professor
College of Nursing, Department of Nursing Systems

Dr. Nora Warshawsky received her Ph.D. in nursing and health systems from the University of North Carolina at Chapel Hill. She comes to UCF from the University of Kentucky, where she was a tenured associate professor. Dr. Warshawsky has secured external funding in her chosen areas of research, nurse manager work environment and nursing workforce development, from both the Health Resources and Services Administration and private foundations. She has published 22 peer-reviewed or invited manuscripts in well-respected nursing administration journals, and more than 40 regional, national, international or invited presentations. She is a fellow in the American Academy of Nursing. Dr. Warshawsky is a national leader in high-level nursing organizations such as the American Nurses Credentialing Center, American Organization of Nurse Executives, and the Council on Graduate Education for Administration in Nursing, where she is currently president-elect. Her academic experience will add to the cadre of professors who specialize in graduate education of nurse leaders, and move UCF further toward the goal of increased enrollment in these programs. Her demonstrated ability to achieve external funding in a highly competitive nursing specialty will enhance our goal for higher levels of funded research. The Department of Nursing Systems and the College of Nursing support the recommendation for tenure with hire.

Peter D. Weishar, Professor
College of Arts and Humanities, Department of Theatre

Mr. Peter D. Weishar received his B.A. with Honors in Studio Art from Union College. He comes to UCF from Florida State University, where he was a tenured professor in the Jim Moran School of Entrepreneurship, previously serving as Dean of the College of Fine Arts. Prior to that, he was Dean of Film, Digital Media and Performing Arts at the Savannah College of Art and Design. Mr. Weishar started his professional career as one of the first artists in the field of digital art and 3D computer animation. He has published three successful books on digital art and animation. He is recognized throughout the industry as the expert in tying education into the profession of themed entertainment. During his tenure at the Savannah College of Art and Design, Mr. Weishar initiated a groundbreaking program in themed entertainment with a partnership and collaboration with Walt Disney Imagineering. He taught the first academic class where Disney allowed their name and facilities to be used by an outside institution. Last year, Mr. Weishar established, and served as director of, the Themed Experience Institute at Florida State University. Recently, he was elected to serve a two-year term as a member of the Themed Entertainment Association Eastern Division Board. The Department of Theatre and the College of Arts and Humanities support the recommendation for tenure with hire.

Cyrus Ali Zargar, Associate Professor
College of Arts and Humanities, Department of Philosophy

Dr. Cyrus Ali Zargar received his Ph.D. in Near Eastern Studies from the University of California, Berkeley. He comes to UCF from Augustana College in Rock Island, Illinois, where he was a tenured associate professor of religion, co-director of the Honors Program and director of the Interreligious Leadership Program. Dr. Zargar's research focuses on Classical Sufism and Islamic Philosophy. He has published two books (with another forthcoming), six journal articles (with one forthcoming), four book chapters and one encyclopedia article, and has presented at numerous invited lectures and conferences. He is book review editor for *The Journal of the Muhyiddin Ibn 'Arabi Society* and past editor-in-chief for *The Journal of Associated Graduates in Near Eastern Studies*. Dr. Zargar has extensive teaching experience, has served on doctoral examination and doctoral dissertation committees, and has served as an undergraduate advisor. He will engage in teaching, service, and scholarly activities relating to Islamic Studies and he will continue the development of a program of excellence in Islamic Studies. The Department of Philosophy and College of Arts and Humanities support the recommendation for tenure with hire.

ITEM: EPC-2

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: Academic Degree Program Termination

DATE: July 19, 2018

PROPOSED BOARD ACTION

Approval to terminate Academic Degree Program: Master of Science in Conservation Biology

BACKGROUND INFORMATION

Each University Board of Trustees has the responsibility and authority to approve termination of degree programs at the bachelor, masters, advanced masters, and specialist level in accordance with regulation 8.012. Upon termination of a degree program, the university will notify the Board of Governors, Office of Academic and Student Affairs within four weeks of the University Board of Trustees decision.

Prepared by: M. Paige Borden, Associate Provost for Academic Program Quality and Associate Vice President for Institutional Knowledge Management

Submitted by: Elizabeth A. Dooley, Interim Provost, Vice Provost for Teaching and Learning, Dean, College of Undergraduate Studies and Professor, College of Education and Human Performance

Attachment A

Revised 12/2016

Board of Governors, State University System of Florida
ACADEMIC DEGREE PROGRAM TERMINATION FORM
In Accordance with BOG Regulation 8.012

UNIVERSITY: University of Central Florida

PROGRAM NAME: Master of Science in Conservation Biology

DEGREE LEVEL(S): M **CIP CODE:** 26.1307
(B., M., Ph.D., Ed.D., etc.) (Classification of Instructional Programs)

ANTICIPATED TERMINATION TERM: F2017
(First term when no new students will be accepted into the program)

ANTICIPATED PHASE-OUT TERM: F2019
(First term when no student data will be reported for this program)

Please use this form for academic program termination. The form should be approved by the University Board of Trustees (UBOT) prior to submission to the Board of Governors, State University System of Florida for consideration. Please fill out this form completely for each program to be terminated in order for your request to be processed as quickly as possible. Attach additional pages as necessary to provide a complete response. In the case of baccalaureate or master's degree programs, the UBOT may approve termination in accordance with BOG Regulation 8.012, with notification sent to the Board of Governors, Office of Academic and Student Affairs. For doctoral level programs please submit this form with all the appropriate signatures for Board of Governors' consideration. The issues outlined below should be examined by the UBOT when approving program terminations.

1. Provide a narrative rationale for the request to terminate the program.

The Department of Biology, the original home of the program, is not interested in supporting this program at any administrative level (e.g., admission, advising, assessment). The College of Graduate Studies does not have the staff or expertise to support and administer the program.

Revised 12/2016

- 2. Indicate on which campus(es) the program is being offered and the extent to which the proposed termination has had or will have an impact on enrollment, enrollment planning, and/or the reallocation of resources.**

The program is offered on the main campus. Termination should have very little impact on enrollment, enrollment planning, or reallocation of resources. Although the program was extremely popular, it has not been well supported recently, so fewer students have inquired about it. In addition, the College of Graduate Studies has developed a Conservation Biology track through its Interdisciplinary Studies MS program, allowing students to continue to work towards a degree focusing on issues in conservation biology.

- 3. Explain how the university intends to accommodate any students or faculty who are currently active in the program scheduled to be terminated. State what steps have been taken to inform students and faculty of the intent to terminate the program. Please provide the date when the teach-out plan was submitted to SACSCOC, if applicable.**

Students have been informed that we will support them through completion of their program. The teach-out plan was created in mid-August 2017 and was probably submitted to SACSCOC soon after.

- 4. Provide data (and cite sources) on the gender and racial distribution of students in and faculty affiliated with the program. For faculty, also list the rank and tenure status of all affected individuals.**

Current students are all white, with 2/3 female (active students report, GradInfo). Since courses are taught through the departments of Biology, Public Administration, Business, Communications, and elsewhere, no faculty are affected by this termination. They will continue to teach courses within their own disciplines.

- 5. Identify any potential negative impact of the proposed action on the current representation of females, minorities, faculty, and students in the program.**

None anticipated.

- 6. If this is a baccalaureate program, please explain how and when the Florida College System (FCS) institutions have been notified of its termination so that students can be notified accordingly.**

N/A

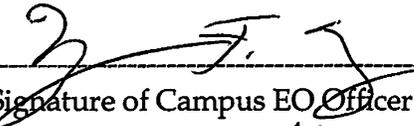
Revised 12/2016



Signature of Requestor/Initiator

6/15/2018

Date



Signature of Campus EO Officer

6/19/18

Date



Signature of College Dean

6/19/18

Date



Signature of President or Vice President for Academic Affairs

6/22/18

Date

Date Approved by the Board of Trustees

Date

Signature of the Chair of the Board of Trustees

Date

ITEM: EPC-3

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: Conferral of Degrees

DATE: July 19, 2018

PROPOSED BOARD ACTION

Approval of Conferral of degrees: Summer 2018 commencement ceremonies.

BACKGROUND INFORMATION

UCF expects to award the following degrees at the Summer 2018 commencement ceremonies on August 4, 2018:

3,169	baccalaureate degrees
541	master's degrees
<u>110</u>	doctoral and specialist degrees
3,820	Total

Supporting documentation: Attachment A: Registrar's Graduation Count

Prepared by: Brian Boyd, University Registrar, Registrar's Office

Submitted by: Elizabeth A. Dooley, Interim Provost, Vice Provost for Teaching and Learning, Dean College of Undergraduate Studies and Professor, College of Education and Human Performance

Attachment A

UCF Summer 2018 Commencement

Note: Procession of graduates begins 20 minutes prior to each ceremony.

*Projected Attending (Baccalaureate only) is an estimate based on 77% attending rate.

College	Baccalaureate				Master's				Doctorate			
	Intent to graduate	Projected* attending	Picked-up cap and gown	Head-count	Intent to graduate	Indicated attending	Picked-up cap and gown	Head-count	Intent to graduate	Indicated attending	Picked-up cap and gown	Head-count
Saturday, 8/4, 9:00 a.m.												
College of Arts and Humanities	215	166			16	16			3	3		
College of Business Administration	427	329			55	55			3	3		
College of Education and Human Performance	194	149			101	101			31	31		
* Education Specialists	0	0	0	0	2	2			0	0	0	0
College of Graduate Studies	0	0	0	0	5	5			0	0	0	0
College of Undergraduate Studies	196	151			0	0	0	0	0	0	0	0
College of Nursing	253	195			32	32			2	2		
Rosen College of Hospitality Management	243	187			16	16			2	2		
College Totals:	1,528	1,177	0	0	227	227	0	0	41	41	0	0
Total Students Anticipated in Attendance:	1,445											
Saturday, 8/4, 2:30 p.m.												
College of Engineering and Computer Science	263	203			44	44			40	40		
College of Health & Public Affairs	623	480			197	197			3	3		
College of Medicine	83	64			18	18			2	2		
College of Optics and Photonics	2	2			9	9			2	2		
College of Sciences	670	516			46	46			22	22		
College Totals:	1,641	1,264	0	0	314	314	0	0	69	69	0	0
Total Students Anticipated in Attendance:	1,647											
Degree level ITG totals:	3,169				541				110			
Combined ITG submissions:	3,820											
All ceremony projected* attending:	3,091	80.9% of all ITG's										
Anticipated attendance - cap/gown pickup:	0	0.0% of all ITG's										
Headcount totals:	0	0.0% of all ITG's										

ITEM: INFO-1

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: Doctoral Analysis

DATE: July 19, 2018

For information only.

Supporting documentation: Attachment A: Doctoral Analysis presentation

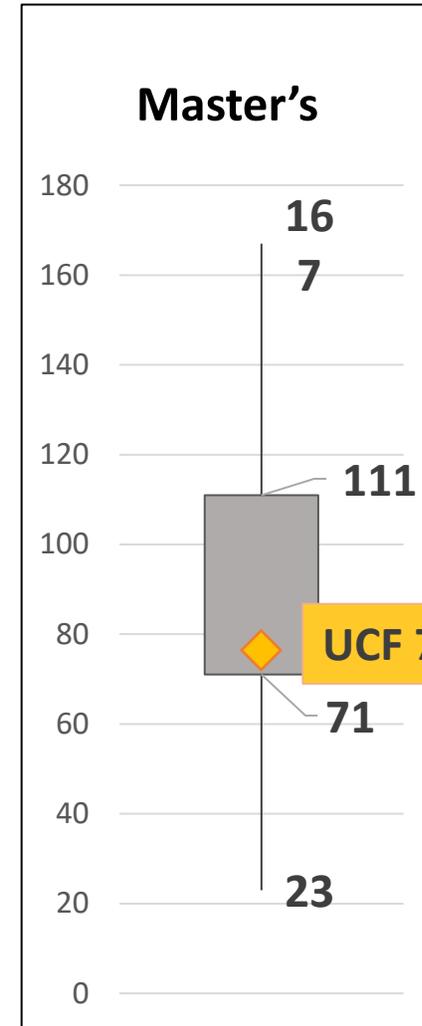
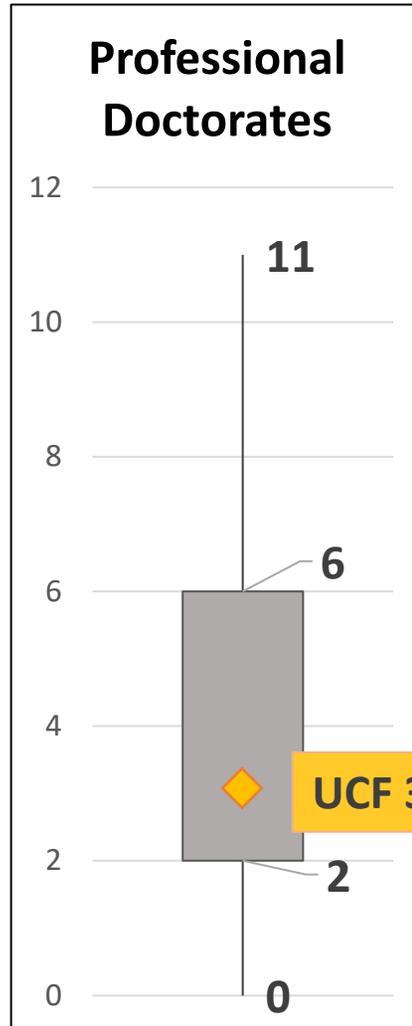
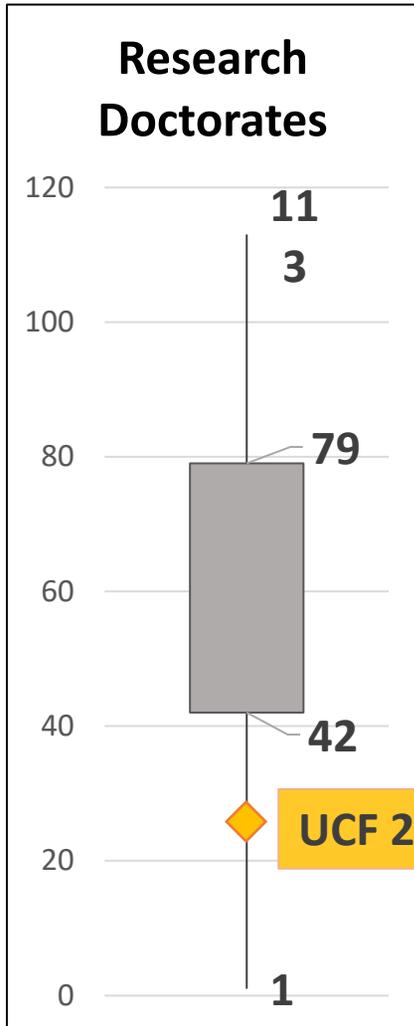
Prepared by: M. Paige Borden, Associate Provost for Academic Program Quality and Associate Vice President for Institutional Knowledge Management

Submitted by: Elizabeth A. Dooley, Interim Provost and Vice Provost for Teaching and Learning, Dean, College of Undergraduate Studies and Professor, College of Education and Human Performance

Doctoral Analysis – Part 1

Educational Programs Committee, July 2018

Discipline Benchmarks



Source: IPEDS, 2016, Very High Research Activity



Program Development Style

- Discipline Specific Programs
 - One-for-one ratio of PhDs within a given field
 - Example: PhD in Mechanical Engineering where a Bachelor's and Master's program already exist
- Generic Programs
 - Doctoral option via tracks across multiple disciplines
 - Example: Education PhD with 15 tracks

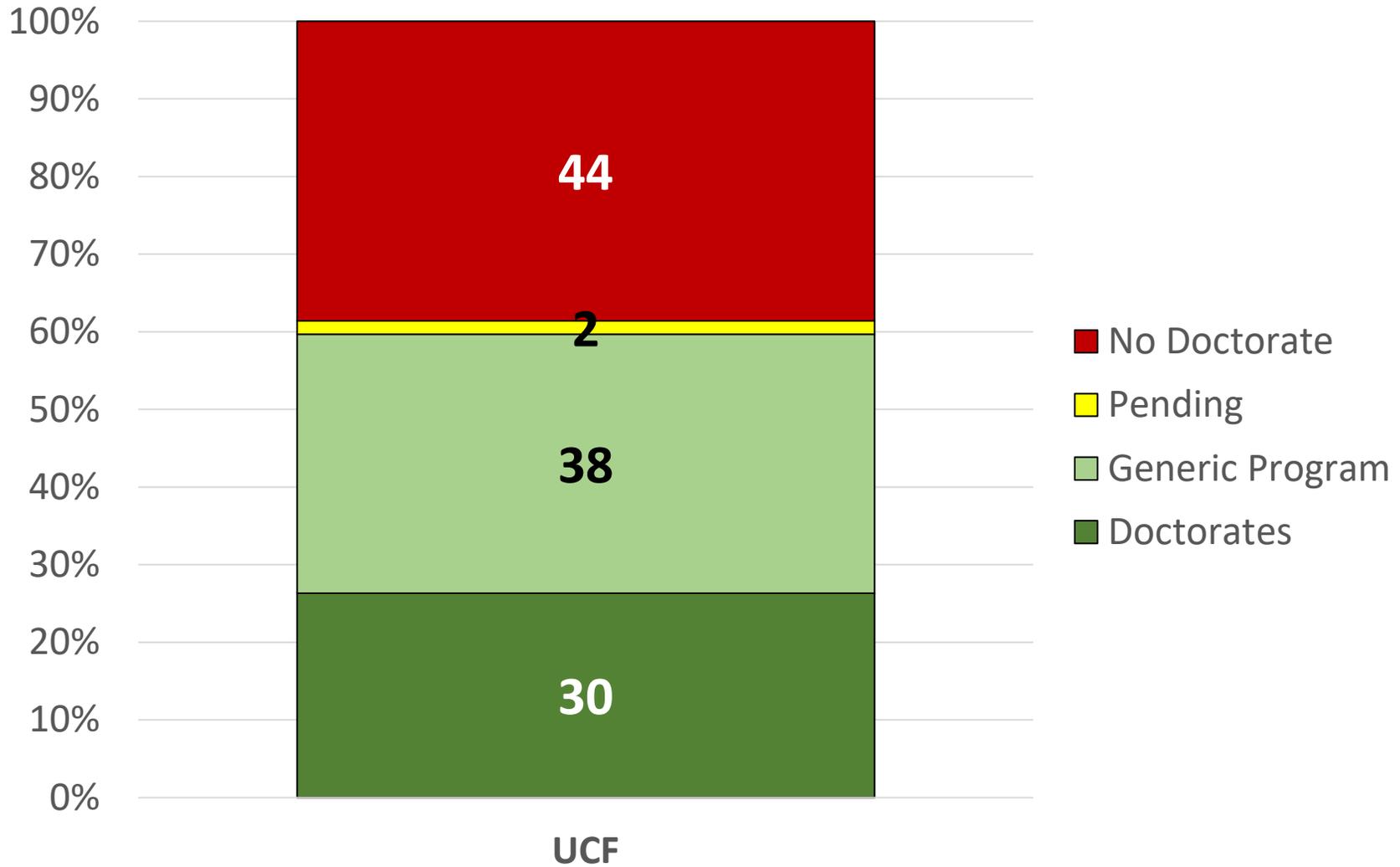
Sample UCF College 2018

College of Health Professions and Sciences

Program Names	CIP	Levels	Doctorate	Strategic Area
Sport and Exercise Science	13.1314	B, M		Education
Social Work	44.0701	B, M	 	
Health Sciences	51.0000	B, M		Health
Communication Sciences and Disorders	51.0204	B, M		Health
Athletic Training	51.0913	B, M		Health
Physical Therapy	51.2308	P		Health

 Program  Pending Program
 Generic Program  No Program

UCF Doctorates 2018



UCF Doctorates 2018

No Doctorate (with Bachelor's and Master's)

Aerospace Engineering [STEM]*	Athletic Training [Health]
Business Economics	Emergency and Crisis Management
Emerging Media [STEM]	English
Forensic Science [STEM]	History
Interdisciplinary Studies*	Music
Nonprofit Management	Real Estate
Spanish [Global]	Theatre

No Doctorate (with only Master's)

Biomedical Engineering*	Creative Writing
Engineering Management	Nanotechnology*
Urban and Regional Planning	

* Listed in UCF's 2018 Accountability Plan as "New Programs for Consideration, 2018-2021"

ITEM: INFO-2

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: Faculty Spotlight – Broadening Access to STEM

DATE: July 19, 2018

For information only.

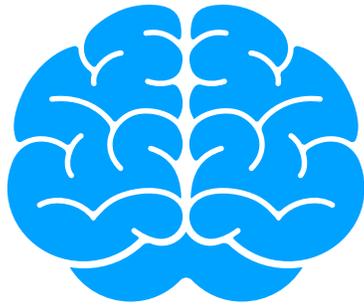
Supporting documentation: Attachment A: presentation

Prepared by: Megan Nickels, Assistant Professor, STEM Education, College of Education and Human Performance

Submitted by: Elizabeth A. Dooley, Interim Provost and Vice Provost for Teaching and Learning, Dean, College of Undergraduate Studies and Professor, College of Education and Human Performance

Broadening Access to STEM

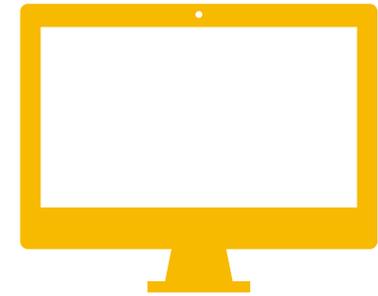




Cognitive & Educational
Profiles



Motivation
Engagement
&
Effect



Clinical
&
Educational
Interventions

\$2.3

Million in Funding

36

Publications

7

Awards





256
Undergraduate Researchers

17

Student
Co-Authored
Publications
2018





15
Student Research
Awards
2017-2018

PedsAcademy at
Nemours[®]
Children's Hospital



UNIVERSITY OF
CENTRAL FLORIDA



ITEM: INFO-3

EDUCATIONAL PROGRAMS COMMITTEE
University of Central Florida

SUBJECT: Valencia College – Notice of Intent

DATE: July 19, 2018

When the State Board of Education receives a Letter of Intent from an institution in the Florida College System, Section 1007.33, Florida Statutes requires that state universities and regionally accredited independent colleges and universities be notified. From the time the Board of Governors office receives a copy of the Letter of Intent, universities have 60 days to submit objections to the proposed new program or to submit an alternative proposal. Objections or an alternative proposal will be considered by the State Board of Education in making its decision to approve or deny a Florida College System institution's proposal.

Supporting documentation: Attachment A: Florida College System – Notification Letter
Attachment B: Valencia College – Notice of Intent

Prepared by: Marshall M. Criser III, Chancellor, Florida Board of Governors

Submitted by: Elizabeth A. Dooley, Interim Provost, Vice Provost for Teaching and Learning Dean College of Undergraduate Studies and Professor, College of Education and Human Performance



State Board of Education

Marva Johnson, *Chair*
Andy Tuck, *Vice Chair*
Members
Gary Chartrand
Ben Gibson
Tom Grady
Michael Olenick
Joe York

Pam Stewart
Commissioner of Education

Madeline Pumariega
Chancellor, Florida College System

MEMORANDUM

TO: Marshall Criser III, Chancellor
State University System of Florida

Ed Moore, President
Independent Colleges and Universities of Florida

Samuel Ferguson, Executive Director
Commission for Independent Education

FROM: Madeline Pumariega, Chancellor

DATE: May 29, 2018

SUBJECT: Notice of Intent from Valencia College

The purpose of this correspondence is to inform you that the Division of Florida Colleges (DFC) received a Notice of Intent (NOI) on May 24, 2018, from Valencia College to develop a Bachelor of Applied Science degree in Software Development. The NOI and accompanying materials are attached for your review.

Section 1007.33, Florida Statutes, requires the DFC to forward the NOI to the chancellor of the State University System, the president of the Independent Colleges and Universities of Florida and the executive director of the Commission for Independent Education. Please provide this information to the institutions within your respective systems as appropriate. State universities shall have 60 days following receipt of notice by the chancellor of the State University System to submit alternative proposals or objections to the proposed program. After the 60 day response period, private institutions shall have 30 days to submit alternative proposals or objections.

Please contact Amy Albee-Levine at 850-245-9492 or Amy.Albee-Levine@fldoe.org if you have questions or concerns.

MP/aal

Attachments

cc: Commissioner Pam Stewart, Florida Department of Education
Dr. Jan Ignash, State University System of Florida
Dr. Sanford Shugart, Valencia College
Dr. Nasser Hedayat, Valencia College



**NOTICE OF INTENT
Form No. BAAC-01**

Section 1007.33(5)(a), Florida Statutes, requires Florida College System institutions to submit a notice of intent to propose a baccalaureate degree program to the Division of Florida Colleges at least 100 days prior to the submission of the program proposal. The completed Notice of Intent form shall be submitted by the college president to the Chancellor of the Florida College System at ChancellorFCS@fldoe.org.

The notice of intent requires completion of the following components:

- Program summary
- Program description
- Workforce demand and unmet need
- Planning process
- Appendix table

Florida College System Institution Name: Valencia College
 Florida College System Institution President: Dr. Sanford C. Shugart

PROGRAM SUMMARY	
1.1	Program Name: <u>Software Development</u>
1.2	Degree Type: <input type="checkbox"/> Bachelor of Science <input checked="" type="checkbox"/> Bachelor of Applied Science
1.3	How will the program be delivered (check all that apply): <input checked="" type="checkbox"/> Face-to-face <input checked="" type="checkbox"/> Hybrid <input type="checkbox"/> Online only
1.4	List the counties in the college's service district: <u>Orange County, Osceola County</u>
1.5	Degree CIP code (4 or 6 digit): <u>11.0103</u>
1.6	Anticipated program implementation date: <u>August 2019</u>
1.7	What is the primary associate degree pathway for admission to the program? <u>Computer Programming & Analysis, A.S.</u>
1.8	Is the degree a STEM focus area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1.9	List program concentration(s) (if applicable): <u>None at this time</u>
1.10	Will the program be designated such that an eligible student will be able to complete the program for a total cost of no more than \$10,000 in tuition and fees? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1 Describe the program.

The proposed Bachelor of Applied Science in Software Development is designed to prepare students for specific industry related topics in software development, including programming languages, databases, web site creation, working with teams, and managing projects.

Graduates of this program will be able to apply a broad set of knowledge and skills to a wide variety of software development projects.

3.1 Describe the career path and potential employment opportunities for graduates of the program.

This program is a 2+2 pathway primarily designed for students in the Computer Programming and Analysis (CPA) AS degree with 572 student majors. In addition, this program provides a pathway opportunity for interested Computer Information Technology (CIT) AS degree (577), and Network Engineering Technology (NET)¹ (445) student majors. ² Incumbent workers will find career paths leading to opportunities of advancement in a variety of software development industries.

Tourism, defense, entertainment, health care, and space exploration are among the highly diverse employers of software developers in Orange and Osceola region. Many representatives of these industries are currently serving on Valencia's Industry advisory councils.

This is a workforce development educational pathway collaborated by the state colleges in Region 12, University of Central Florida (UCF), and the local businesses and industry. The overarching goal of the program is to produce graduates who can begin contributing to a software development team immediately upon graduation.

3.2 Describe the workforce demand, supply and unmet need for graduates of the program that incorporates, at a minimum, the shaded information from appendix tables A.1.1 to A.1.3.

According to 2017-25 employment projections data, produced by the Florida Department of Economic Opportunity (DEO), for Valencia's Service District for each SOC code associated with the proposed program's CIP code of 11.0103 the total workforce demand in direct CIP to SOC (Table A.1.1) indicate average annual job openings of 1,261 in the area of Software Development.

The regional supply is small, with the most recent year and the five-year average both under 200 as indicated in Table A.1.2. UCF, the only state university in Valencia's service area, offers a BS in Information Technology as a science under Track 1 of the Common Prerequisites Manual and does not include the curriculum in software development. UCF awarded 184 degrees in this proposed CIP in 2016/17. However, according to UCF Institutional Research office, only 46 of the 184 (25%) reported being a resident of Orange or Osceola County.

Other local regionally accredited institutions offering a program with this CIP are University of Phoenix-Florida and Keiser University with a total of 12 graduates.

¹ Valencia College's program is entitled Network Engineering Technology (1511100112). The state title of the same CIP program (1511100112) is Network Systems Technology.

² Students major listed are from 2016/2017 college reporting year.

Among all institutions offering this CIP program, the total 2016/17 graduate supply is 196, 15.5% of the DEO's total job openings identified in Appendix Table A.1.3. After reviewing the supply and demand, the unmet need is 1,065 (84.5%).

Considering the volume of current unmet need and the decision of UCF to discontinue its BAS degree, it is critical for Valencia to offer the proposed BAS degree in Software Development.

-
- 3.3 Describe any other evidence of workforce demand and unmet need for graduates as selected by the institution, which may include qualitative or quantitative data information, such as local economic development initiatives, emerging industries in the area or evidence of rapid growth, not reflected in the data presented in appendix tables A.1.1 to A.1.3. For proposed programs without a listed SOC linkage, provide a rationale for the identified SOC code(s).

According to a recent article in the US News and World Report ³ - In 2018, the Software Developer ranked #1 in all three categories of Best Technology Jobs, 100 Best Jobs, and Best STEM Jobs.

"Software developers are in high demand right now. They are employed in a range of industries, including computer systems design, manufacturing and finance. The Bureau of Labor Statistics projects more than 30 percent employment growth for software developers between 2016 and 2026, which is much faster than average for all occupations. In that period, an estimated 253,400 jobs will be created." ⁴

In the Valencia Service Area, the need extends out to many industry sectors and is evident by the employers and the range of industries they represent. (See next page) The more an occupation shows up across different industries, the more critical it is to grow and train in order to grow the local economy. The implication of this is a cross-industry workforce challenge and requires the need to prepare an adaptable workforce with the requisite software development skills.

Major employers of the occupations listed in the direct SOC to CIP (A.1.1 table) representing a minimum of eleven industries are continuously looking for highly skilled workers with a baccalaureate degree in software development, as evidenced by the following research in the chart below. To assess the number of job postings, the college reviewed EMSI Job Postings Analytics. EMSI Job Postings Analytics⁵ is an overview of job posting activity over time with data related to intensity, regions, occupations, job titles, and skills. The criteria specific to the Valencia Service Area, the specified SOC codes pertinent to the CIP 11.0103, and the educational attainment level of bachelor's degree filtered out unrelated job postings.

Using both websites <https://mailinglists.com/mailinglistsxpress/duns-number-sic-and-naics-code-lookup/what-is-my-company-naics-code/> and <http://www.findnaics.com>, each employer's NAICS code(s) aided to isolate specific industries in need of these skilled workers. Many of the industry employers listed below have representatives serving on Valencia's industry advisory councils.

³ <https://money.usnews.com/careers/best-jobs/software-developer>

⁴ <https://money.usnews.com/careers/best-jobs/software-developer>

⁵ Source: EMSI Analyst Job Postings Report, Time Frame: January – December 2017 for Orange and Osceola counties and all occupations listed in table A.1.1. Available on request.

The table below represents the top ten employers based on the volume of job postings with the specified criteria identified on previous page.

Valencia Service Area Employer	Industry, NAICS Code	2017 Bachelor Level Unique Job Postings
Oracle Corporation	(Custom Computer Programming Services, 541511 and Computer Systems Design Services, 541512)	1,244
Lockheed Martin Corporation	(Aircraft Manufacturing, 336411 and Engineering Services, 541330)	1,201
Deloitte LLP	(Administrative Management and General Management Consulting Services, 541611)	1,196
The Walt Disney Company	(Amusement and Theme Parks, 713110)	764
NBC Universal Media, LLC	(Amusement and Theme Parks, 713110)	219
Kforce Inc.	(Employment Placement Agencies, 561311)	130
Northrop Grumman Corp.	(Other Communications Equipment Manufacturing, 334290 and Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing, 334511)	180
Electronic Arts, Inc.	(Software Publishers, 511210)	157
Leidos Holdings, Inc.	(Offices of Other Holding Companies, 55112)	314
Science Applications International Corporation <small>[aka SAIC]</small>	(Custom Computer Programming Services, 541511, Computer Systems Design Services, 541512)	51
2017 Bachelor Level Unique Job Postings just in Top 10 Employers		5,456
2017 Bachelor Level Unique Job Postings for all 102 Employers		8,122

- 3.4 If the education level for the occupation identified by the Florida Department of Economic Opportunity presented in appendix table A.1.1 is below a bachelor’s degree, provide justification for the inclusion of that occupation in the analysis.

Although, four occupations within the direct CIP to SOC employment have been identified below the bachelor level through the Florida Department of Economic Opportunity, all occupations have been identified as at the baccalaureate level by the Bureau of Labor Statistics (BLS). The State Colleges Projections Portal provided by the Florida Department of Education has listed all these occupations as typical bachelor level occupations per the BLS: Computer Network Architects (SOC: 151143), Computer Systems Analysts (SOC: 151121), Information Security Analysts (SOC: 151133), and Software Developers, Systems Software (SOC: 151122).

The majority of Valencia Service District employers hire baccalaureate graduates as evidenced in the Job Postings Analytics previously mentioned. Members of several Advisory Councils supported the creation of a BAS degree in Software Development at Valencia. Some of the members voicing their support of the degree include:

- *Jeff Bitner, Technical Analyst, Walt Disney World Co.*
- *Joe Cosmano, SVP Engineering Services, iboss*
- *Andrew Kozlik, Engineering Manager, Unikey Technologies*
- *Christopher Maitland, Technical Solutions Engineer, Sprint*
- *James McQuiggan, Production & Solution Security Officer, Siemens*
- *Paula Stenzler, Senior Director Engineering & Safety Services, Universal Creative, Universal Parks and Resorts*

PLANNING PROCESS

4.1 Summarize the internal planning process.

April 14, 2017: Valencia learned that UCF would suspend admission to its BAS degree effective spring 2018. The BAS program included a track in Software Development.

April 16, 2017: Dr. Hedayat, AVP of Career and Workforce Education discussed with Dr. Ledlow the workforce impact of UCF's decision and for Valencia to consider offering the degree.

June 16, 2017: Dr. Hedayat discussed the BAS degree with Dr. Carin Gordon Dean of Business, Information Technology & Public Service, East Campus; Dr. Lisa Macon, Dean of Engineering, Computer Programming & Technology; and Dr. James McDonald, Dean of Career and Workforce Development. They also discussed the impact the UCF decision may have on Valencia students and the possibilities for Valencia to offer the degree.

June 29, 2017: IT division administrators and faculty began planning regarding student survey on interest in BAS degree.

September 10, 2017: The Career and Workforce Education office conducted research on the workforce data related to the software development industry.

October 3, 2017: Dr. Macon and Dr. Gordon discussed potential of the BAS degree.

October 15, 2017: Valencia conducted a survey of the students (CPA, CIT, and NET) to obtain student's interest for the program. There were 369 responses from IT related program majors.

November 11, 2017: Dr. Hedayat shared survey results with Dr. Macon and Dr. Gordon.

January 11, 2018: Dr. Hedayat and Dr. Gordon discussed determination of moving BAS degree forward. Dr. Gordon and East Campus President Dr. Johnson discussed BAS degree status. Dr. Johnson and Valencia President Dr. Shugart discussed BAS degree status.

January 19, 2018: Dr. Hedayat and Dr. Gordon discussed Summary Preliminary Findings Form for discussion with the college Senior Leadership

January 24, 2018: College Senior Leadership discussed the B.A.S. degree in Software Development and approved to move forward to College District Board of Trustees for consideration.

February 12, 2018: Dr. Hedayat Submitted to APPRiSe Valencia's intent to offer the B.A.S. degree in Software Development.

Mar 23, 2018: Dr. Nasser Hedayat, Dr. Carin Gordon and Dr. Lisa Macon, along with faculty, met to discuss the planning of the B.A.S. in Software Development.

April 5, 2018: Dr. Gordon and Dr. Hedayat presented the concept of the BAS degree program to the IT Advisory Council. Council members expressed their support of Valencia for developing the program.

April 5, 2018: Dr. Hedayat presented the concept of Bachelor program to Energy Management and Controls Advisory Council. Council members expressed their support of Valencia for developing the program.

April 10, 2018: Dr. Macon and Dr. Hedayat presented the concept of Bachelor program to Electronics Engineering Technology Advisory Council. Council members expressed their support of Valencia for developing the program.

April 23, 2018: Chris Castro, Director of Sustainability with the City of Orlando met with the Valencia team to discuss the impact of the bachelor degree in Software Development on the Smart Cities initiative. He contended that the graduates of this program would have career opportunities through this initiative. Visit the link to the City of Orlando Smart Cities Announcement: <http://www.cityoforlando.net/news/2017/02/city-of-orlando-selected-to-be-part-of-2017-smart-cities-council-readiness-challenge/> for more information.

April 25, 2018: At the month of April District Board of Trustees meeting, Valencia President Dr. Sandy Shugart recommended that the Board approve Valencia's intent to offer a program of study leading to a Bachelor of Applied Science in Software Development. Dr. Stacey Johnson, East and Winter Park Campus President, Dr. Carin Gordon, and Dr. Lisa Macon presented the workforce data, student survey, and the support of educational partners to the board. The Board unanimously approved the recommendation.

April 27, 2018: Dr. Hedayat submitted the NOI to the Florida Department of Education.

4.2 Summarize the external planning process.

April 14, 2017: UCF informed Valencia that they would suspend admission to its BAS degree effective spring 2018.

February 8, 2018: Dr. Hedayat at the CEO Leadership Forums shared with the members the UCF's decision and Valencia's intent to pursue the Baccalaureate degree in Software Development.

February 12, 2018: Dr. Hedayat notified the DirectConnect Workforce Team Valencia's intent to pursue the B.A.S. degree in Software Development and shared the related workforce data for review.

February 27, 2018: Valencia forwarded the workforce group support to the Consortium Academic Coordination Committee (CACC) team.

March 27, 2018: Dr. Jones from UCF notified Valencia that CACC has expressed no concern with Valencia's proposal to offer the BAS in Software Development.

April 2, 2018: Dr. Sean Armstrong, Director of Academic Support Services and Partnership at UCF and Dr. Hedayat shared with the Direct Connect Consortium the support of Valencia's proposal by the workforce and the CACC groups.

April 5, 2018: Dr. Hedayat via an email shared with Brian Lucas, University of Phoenix Valencia's intent to offer the B.A.S. degree in Software Development and potential articulation agreement to the graduate program.

April 6, 2018: Brian Lucas via an email expressed the University of Phoenix support and offering a letter of support for Valencia to offer the B.A.S. degree in Software Development.

April 26, 2018: Mr. Alvaro Pesce Cotero, Founder and General Manager of Masterbase, LLC along with Geoffrey Gallo, Sr. Vice President-Marketing & Strategic Consulting of Grennan Fender met with Nasser Hedayat, Lisa Macon, and Carin Gordon to discuss the BAS in Software Development and employment of the graduates by Mr. Cotero's company, Masterbase, LLC.

- 4.3 List of engagement activities; this list shall include APPRiSe, meetings, and other forms of communication among institutional leadership regarding evidence of need, demand, and economic impact.

	Date(s)	Institution	Description of activity
APPRiSe	2/12/18	Valencia College	As of 3/29/18, the comment period ended with no comments.
Public universities in college's service district	4/14/17	University of Central Florida	Dr. Jones communicated via email addressed to the DirectConnect Workgroup the suspension of the BAS degree at UCF effective spring of 2018.
Regionally accredited institutions in the college's service district	2/12/18	DirectConnect Workgroup: College of Central Florida; Daytona State College; Eastern Florida State College; Lake-Sumter State College; Seminole State College; and Valencia College	Dr. Hedayat presented the workforce data on software development occupations to the consortium workforce group. No concerns were expressed.
	2/27/18	University of Central Florida	Dr. Ledlow forwarded to Dr. Jones the Consortium Workforce Committee Report, to share with the CAAC group. Dr. Jones acknowledged that there is no concern from UCF.
	4/5/18	University of Phoenix, Brian Lucas, Campus Director of the Central Florida Campus	A letter of support has been received. 4/6/18.
	5/3/18	Keiser University	An initial communication was made on April 3, 2018 and the follow-up communication was sent to Dean of Academic Affairs, Dr. Sparks on May 18. No response has been received.

Appendix Table A.1.

INSTRUCTIONS FOR COMPLETING THE DEMAND SECTION OF APPENDIX TABLE A.1: To complete the following table, use the [CIP to Standard Occupational Classification \(SOC\) crosswalk](#) of the U.S. Department of Education to identify the SOC codes for occupations associated with the proposed program’s CIP code. Fill in Table A.1.1 using the employment projections data produced by the Florida Department of Economic Opportunity (DEO), pursuant to Section 445.07, F.S., for the workforce region aligned with the college’s service district for each SOC code associated with the proposed program’s CIP code. The employment projections data may be accessed at <http://www.floridajobs.org/labor-market-information/data-center/statistical-programs/employment-projections>. For proposed programs without a listed SOC linkage, identify the appropriate SOC codes for which the program prepares graduates. Insert additional rows as needed. The total job openings column value shall be divided by eight to reflect total annual job openings. The annualized salary shall be calculated by multiplying the average hourly wage times 40, and then multiplying that value times 52.

DEMAND: FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY (DEO) EMPLOYMENT PROJECTIONS											
A.1.1	Occupation			Number of Jobs			Salary		Education Level		
Name/Title	SOC Code	County/ Region	Base Year 2017	Projected Year 2025	Level Change	Total Job Openings (divided by 8)	Avg. Hourly Wage	Annualized Salary	Minimum FL†	Typical BLS†	
Appendix A.1.1: CIP to SOC Crosswalk from DEO/LMI											
Computer and Information Systems Managers	113021	Orange/Osceola Counties	1,756	2,105	1,461	183	\$64.88	\$134,950	B	B	
Computer Network Architects	151143	Orange/Osceola Counties	1,902	2,139	1,146	144	\$38.25	\$79,560	PS	B	
Computer Systems Analysts	151121	Orange/Osceola Counties	2,552	3,090	1,931	242	\$38.95	\$81,016	A	B	
Information Security Analysts	151133	Orange/Osceola Counties	810	968	598	75	\$43.70	\$90,896	PS	B	
Software Developers, Systems Software	151122	Orange/Osceola Counties	4,529	5,366	3,260	408	\$42.95	\$89,336	A	B	
Software Developers, Application	151132	Orange/Osceola Counties	2,544	2,885	1,671	209	\$50.35	\$104,728	B	B	
Total within CIP to SOC Crosswalk						1,261					

Valencia service area is Orange and Osceola Counties.

INSTRUCTIONS FOR COMPLETING THE SUPPLY SECTION OF APPENDIX TABLE A.1: To complete the following table, use the Integrated Postsecondary Education Data System of the National Center for Education Statistics to identify the number of degrees awarded by other regionally accredited postsecondary institutions in the college’s service district under the same or related CIP code(s) as the proposed program. The data center is located at <http://nces.ed.gov/ipeds/datacenter/>. Include degrees awarded for the most recent year available and for the four prior years for each program. If the program has not had degrees awarded for five years or more, add the degrees awarded for the years available, and divide by that number of years, for the average.

SUPPLY: NATIONAL CENTER FOR EDUCATION STATISTICS, INTEGRATED POSTSECONDARY EDUCATION DATA SYSTEM							
A.1. 2 Program: Software Development		Number of Degrees Awarded					5-year average or average of years available if less than 5 years
Institution Name	CIP Code	Prior Year 4 2012/13	Prior Year 3 2013/14	Prior Year 2 2014/15	Prior Year 1 2015/16	Most Recent Year 2016/17	
		IPEDS	IPEDS	IPEDS	IPEDS	IPEDS	
University of Central Florida	11.0103	107	124	143	201	184	152
University of Phoenix-Florida	11.0103	0	0	0	1	0	1
Keiser University-Ft. Lauderdale <small>(Some, not all Orlando)</small>	11.01 03	14	17	27	19	12	18
Total						196	171

INSTRUCTIONS FOR COMPLETING THE ESTIMATES OF UNMET NEED SECTION OF APPENDIX TABLE A.1: To complete the following table, the total in column A should be derived from the total job openings from Table A.1.1 and the totals in columns B and C should be derived from Table A.1.2. Input the figures in the “Total” row in Table A.1.1 for total job openings and Table A.1.2 for most recent year and 5-year average. The range of estimated unmet need should be derived from 1) subtracting the figure in column B from the figure in column A and 2) subtracting the figure in column C from the figure in column A.

ESTIMATES OF UNMET NEED							
A.1.3		DEMAND		SUPPLY		RANGE OF ESTIMATED UNMET NEED	
		(A)	(B)	(C)	(A-B)	(A-C)	
		Total Job Openings (divided by 8)	Most Recent Year	5-year average or average of years available if less than 5 years	Difference	Difference	
Total	DEO A.1.1	1,261	196	171	1,065	1,090	