

**BACCALAUREATE PROPOSAL  
APPLICATION Form No. BA.A.C-02**

Section 1007.33(5)(d), Florida Statutes, and Rule 6A-14.095, F.A.C., outline the requirements for a Florida College System baccalaureate program proposal. The completed Proposal form shall be submitted by the college president to the Chancellor of the Florida College System at [ChancellorFCS@fldoe.org](mailto:ChancellorFCS@fldoe.org). In addition, a printed version shall be mailed to the Division of Florida Colleges at 325 West Gaines Street, Suite 1544, Tallahassee, Florida 32399-0400.

The proposal requires completion of the following components:

- Program summary
- Program description
- Workforce demand and unmet need
- Planning process
- Enrollment projections and funding requirements
- Student costs: tuition and fees
- Program implementation timeline
- Facilities and equipment specific to program area
- Library and media specific to program area
- Academic content
- Program termination
- Appendix tables
- Supplemental materials

Florida College System Institution Name: [Valencia College](#)  
 Florida College System Institution President: [Dr. Sanford Shugart](#)

**PROGRAM SUMMARY**

1.1	Program Name:	<u><a href="#">Software Development</a></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><a href="#">Orange County, Osceola County</a></u>
1.5	Degree CIP code (4 or 6 digit):	<u><a href="#">11.0103</a></u>
1.6	Anticipated program implementation date:	<u><a href="#">August 2019</a></u>
1.7	What is the primary associate degree pathway for admission to the program?	<u><a href="#">Computer Programming &amp; Analysis, A.S.</a></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):	<i>None at this time</i>	
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

**PROGRAM DESCRIPTION**

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.*

**WORKFORCE DEMAND AND UNMET NEED**

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 AS degree with 572 unduplicated student majors in 2016/17. In addition, this program provides a pathway opportunity for interested Computer Information Technology AS degree (577), and Network Engineering Technology <sup>1</sup> (445) student majors. <sup>2</sup> Incumbent workers will find career paths leading to opportunities of advancement in a variety of software development industries. The overarching goal of the program is to produce graduates who can begin contributing to a software development team immediately upon graduation.*

*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 and supported by the Direct Connect to UCF Consortium institutions which includes College of Central Florida, Daytona State College, Eastern Florida State College, Lake-Sumter State College, Seminole State College of Florida, Valencia College, and University of Central Florida. Consortium members have agreed the workforce data to be reviewed by the consortium workforce team in order to demonstrate the need of the program and receive the endorsement of the Consortium Academic Coordination Committee (CACC) team.*

<sup>1</sup> Valencia College’s program is entitled Network Engineering Technology (1511100112). The state title of the same CIP program (1511100112) is Network Systems Technology.

<sup>2</sup> Students’ majors listed are from 2016/2017 college reporting year.

- 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 A.1.1 to A.1.3.

*The Federal CIP code of 11.0103, included seven SOC codes, however, Valencia's proposal excludes the SOC code 15-1111 (Computer and Information Research Scientists) due to the Masters or higher level of education required. The remaining SOC codes, according to 2017-25 employment projections data, produced by the Florida Department of Economic Opportunity (DEO), for Valencia's Service District, indicate average annual job openings of 1,261 in the area of Software Development for the proposed program's total workforce demand in direct CIP to SOC ([Appendix Table A.1.1, p. 20](#)).*

*The regional supply is small, with the most recent year and the five-year average both under 200 as indicated in [Appendix Table A.1.2, p. 21](#). 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. (See [Appendix B1: A, UCF Students Earning Bachelor's Degrees in CIP 11.0103, p. 28](#))*

*Other local regionally accredited institutions offering a program with this CIP are University of Phoenix-Florida and Keiser University. The total of the recent graduates (2016/17) for both institutions is 12. (See [Appendix Table A.1.2, p. 21](#))*

*Among all institutions offering this CIP program, the total 2016/17 graduate supply in the Valencia Service District of Orange and Osceola counties is 196, 15.5% of the DEO's total job openings identified in [Appendix A.1.3 Table, p. 22](#). 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.*

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- 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 - In 2018, the Software Developer ranked #1 in all three categories of Best Technology Jobs, 100 Best Jobs, and Best STEM Jobs. (See [Appendix B1: B, pp. 29-30, First reference on p. 30](#))*

*"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." (See [Appendix B1: B, pp. 29-30, Second reference on p. 30](#))

Within the Valencia Service Area, there is a large variety of organizations in need of software developers. This 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 (See [Appendix Table A.1.1, p. 20](#)) 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 Analytics is an overview of job posting activity over time with data related to intensity, regions, occupations, job titles, and skills. (Source: [Appendix B.1: D, pp. 32-44](#) -- EMSI Analyst Job Postings Report, Time Frame: April 2017 – April 2018 for Orange and Osceola counties and all occupations listed in table A.1.1.) 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. As mentioned previously, the SOC code 15-1111 (Computer and Information Research Scientists) was not included in the proposal due to the Masters or higher level of education required.

Using the website <https://mailinglists.com/mailinglistsxpress/duns-number-sic-and-naics-code-lookup/what-is-my-company-naics-code/> 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. The table below represents the top ten employers based on the volume of job postings with the specified criteria identified on previous page.

<b>Valencia Service Area Employer</b>	<b>Industry, NAICS Code</b>	<b>2017 Bachelor Level Unique Job Postings</b>
<b>1) Oracle Corporation</b> DUNS Number: 034540307	Custom Computer Programming Services, 541511 and Computer Systems Design Services, 541512	1,244
<b>2) Lockheed Martin Corporation</b> DUNS Number: 079814488	Aircraft Manufacturing, 336411 and Engineering Services, 541330	1,201
<b>3) Deloitte LLP</b> DUNS Number: 047198514	Other Accounting Services, 541219 (See <a href="#">Appendix B1: C, Letter of Support, Uday Katira, p. 31</a> )	1,196
<b>4) The Walt Disney Company</b> DUNS Number: 049759814	Amusement and Theme Parks, 713110, Hotels [except Casino Hotels] and Motels, 721110	764
<b>5) Universal Orlando</b> DUNS Number: 051446489 & 968026786	Full-Service Restaurants, 722511, and Amusement and Theme Parks, 713110	219
<b>6) Kforce, Inc.</b> DUNS Number: 048541582	Employment Placement Agencies, 561311	130
<b>7) Northrop Grumman Corp.</b> DUNS Number: 181416702	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing, 334511	180

<b>Valencia Service Area Employer</b>	<b>Industry, NAICS Code</b>	<b>2017 Bachelor Level Unique Job Postings</b>
<b>8) Electronic Arts-Tiburon</b> <i>DUNS Number: 957302482</i>	<i>Doll, Toy, and Game Manufacturing, 443142, and Software Publishers, 511210</i>	<b>157</b>
<b>9) Leidos, Inc.</b> <i>DUNS Number: 079655291</i>	<i>Research and Development in the Physical, Engineering, and Life Sciences, 541715, and Custom Computer Programming Services, 541511</i>	<b>314</b>
<b>10) Science Applications Int'l Corp.</b> <i>DUNS Number: 079364603 &amp; 011012879</i>	<i>Computer Systems Design Services, 541512, and Software Publishers, 511210</i>	<b>51</b>
<b>2017 Bachelor Level Unique Job Postings just in Top 10 Employers</b>		<b>5,456</b>
<b>2017 Bachelor Level Unique Job Postings for all 102 Employers</b>		<b>8,122</b>

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 this degree include:*

- Joe Cosmano, Senior Vice President, Engineering Services, iBoss ([Appendix B.1: E, Letter of Support, p. 45](#))*
- Andrew Kozlik, Engineering Manager, Unikey Technologies ([Appendix B.1: F, Letter of Support, p. 46](#))*
- Christopher Maitland, Technical Solutions Engineer, Sprint-Network Operations Solutions ([Appendix B.1: G, Letter of Support, p. 47](#))*
- James McQuiggan, Chapter President, International Information Systems Security Certification Consortium, Inc. (ISC<sup>2</sup>) ([Appendix B.1: H, Letter of Support, p. 48](#))*
- Paula Stenzler, Senior Director Engineering & Safety, Universal Creative, ([Appendix B.1: I, Letter of Support, p. 49](#))*

## PLANNING PROCESS

### 4.1 Summarize the internal planning process.

***NOTE:*** *The individuals mentioned below are all Valencia Staff unless otherwise indicated.*

**April 14, 2017:** Valencia learned that UCF would suspend admission to its BAS degree [in General Studies] (CIP 24.0102) effective spring 2018. Dr. Jeffrey Jones, Vice Provost, University of Central Florida cited that the BAS degree does not seem to be consistent with their longer-term core academic mission. Their BAS program included a track in Software Development. (See email in [Appendix B.1: KK, p. 102.](#))

**April 16, 2017:** Dr. Nasser Hedayat, AVP of Career and Workforce Education discussed with Dr. Susan Ledlow, then VP for Academic Affairs, the workforce impact of UCF's decision and considered the potential of Valencia offering the BAS degree in Software Development with Dr. Susan Ledlow, then VP of Academic Affairs and Planning.

**June 16, 2017:** Dr. Hedayat discussed the BAS degree in Software Development with Dr. Carin Gordon, Dean Business, Information Technology & Public Services; Dr. Lisa Macon, Dean of Engineering, Computer Programming & Technology; and Dr. James McDonald, Dean of Career and Technical Programs. They also discussed the impact the UCF decision may have on Valencia students and the possibilities for Valencia to offer the degree. At this time, the standardized Program Development Process began. (Details of the process are in [Appendix B.1: J, p. 50](#))

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

**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 in Software Development.

**October 15, 2017:** Valencia conducted a survey of the students (Computer Programming and Analysis AS degree, Computer Information Technology AS degree, and Network Engineering Technology AS degree) to obtain students' interest for the program. There were 367 responses from IT related program majors. (See [Appendix B.1: K, pp. 51-53](#))

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

**January 11, 2018:** Dr. Hedayat and Dr. Gordon discussed determination of moving BAS degree in Software Development 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. Hedayat, Dr. Gordon and Dr. 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 in Software Development program to the IT Advisory Council. Council members expressed their support of Valencia for developing the program. (See [Appendix B.1: LL-Membership Listing, Information Technology Industry Advisory Council, p. 103.](#))

**April 5, 2018:** Dr. Hedayat presented the concept of Software Development Bachelor degree program to Energy Management and Controls Advisory Council. Council members expressed their support of Valencia for developing the program. (See [Appendix B.1: KK-Membership Listing- Energy Management and Controls Technology Industry Advisory Council, p. 104.](#))

**April 10, 2018:** Dr. Macon and Dr. Hedayat presented the concept of Bachelor in Software Development program to Electronics Engineering Technology Advisory Council. Council members expressed their support of Valencia for developing the program. (See [Appendix B.1: LL-Membership Listing- Electronics Engineering Technology Industry Advisory Council, p. 105.](#))

**April 23, 2018:** Chris Castro, Director of Sustainability with the City of Orlando met with Valencia staff members Resham Shirsat, LEED AP, Director of Education for Sustainability, Dr. Gordon, and Dr. Hedayat to discuss the impact of the bachelor degree in Software Development on the Smart Cities initiative. Orlando is one of five cities chosen by the Smart Cities Council to partner with as part of the 2017 Smart Cities Council Readiness Challenge. Orlando was selected because of its commitment to utilizing smart technologies to advance livability, workability, sustainability and resilience in the City. As part of the challenge, the City will receive tailored guidance on further developing and implementing a comprehensive approach to apply smart technologies to continue to expand innovation, inclusion and investment in Orlando. In these pursuits, the City will continue moving forward with building a data-driven infrastructure that will support a safer, cleaner and more efficient city and an improved quality of life for the community. Mr. Castro contended that the graduates of this program would have career opportunities through this initiative. (See [Appendix B.1: L-1\) Smart Cities Announcement on p. 53](#), and [Appendix B.1: L-2\) City of Orlando, Letter of Support, p. 54](#))

**April 25, 2018:** At the month of April District Board of Trustees meeting, Valencia President Dr. Sandy Shugart recommended 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. (See [Appendix B.1: M, pp. 56-59 for Board Meeting minutes](#) and [Appendix B.1: N, pp. 60-65 for presentation.](#))

**May 18, 2018:** The Valencia Baccalaureate Development Team for the BAS in Software Development met to discuss next steps, including the process for offering the degree at

*\$10,000, Financial Aid, Marketing, Veteran's needs, SACS Substantive Change, and Curriculum, in order to finalize the proposal. Attendees included Linda Herlocker, Registrar; Allie Vatcher, Marketing; Tamika Martin & Donna MacDonald, Financial Aid; Karen Borglum & Wendi Dew, Curriculum; Darren Smith, SACS Liaison; Dr. Macon, Faculty; Dr. Hedayat; Dr. Gordon; Donald Gibson, Veteran's Affairs; and Dr. J. McDonald.*

**June 13, 2018:** Curriculum was approved at the Collegewide Curriculum Committee. (See [Appendix B.1: O, pp. 66-73](#) for Curriculum Approval, Meeting Minutes)

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#### 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 attended a meeting of the CEO Leadership Forums, an organization committed to facilitating a strategic partnership between Valencia College, their students, and local businesses. Dr. Hedayat shared UCF's decision and Valencia's intent to pursue the Baccalaureate degree in Software Development. (See [Appendix B.1: OO-Membership Listing, CEO Forums Sponsor Organizations, p. 106.](#))

**February 12, 2018:** Dr. Hedayat notified the DirectConnect Workforce Group Valencia's intent to pursue the BAS degree in Software Development and shared the related workforce data for review. (See [Appendix B.1: PP-Membership Listing- Direct Connect Valencia UCF, Workforce Group, and full attendee list, p. 107.](#))

**February 27, 2018:** Valencia forwarded the workforce group support to the Consortium Academic Coordination Committee (CACC) team. (See [Appendix B.1: QQ-Membership Listing- DirectConnect Consortium Academic Coordination Committee \(CACC\) team, p. 108.](#))

**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. (See [Appendix B.1: P, DirectConnect meeting minutes, pp. 74-79, and p. 77 for specific reference to the BAS in Software Development](#))

**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. (See [Appendix B.1: Q, letter of support on p. 80](#))

**April 26, 2018:** Mr. Alvaro Pesce, Founder and General Manager of Masterbase, LLC along with Geoffrey Gallo, Sr. Vice President-Marketing & Strategic Consulting of Grennan Fender met with Dr. Hedayat, Dr. Macon, and Dr. Gordon to discuss the BAS in Software Development and employment of the graduates by Mr. Pesce's company, Masterbase, LLC. (See [Appendix B.1: R, letter of support on p. 81](#))

**May 18, 2018:** Dr. Jones from UCF met with Dr. Hedayat to discuss the BAS in Software Development and potential articulation with UCF. Dr. Jones also shared his official letter of support of the BAS program. Upon state approval, the two agreed to continue the articulation discussion. ([See Appendix B.1: S, letter of support on p. 82](#))

**May 24, 2018:** The Florida Department of Education received the NOI.

**June 12, 2018:** Dr. Hedayat shared the plan for the BAS in Software Development with CareerSource Central Florida. ([See Appendix B.1: T, letter of support on p. 83](#))

**June 19, 2018:** Mr. Alvaro Pesce, Founder and General Manager of Masterbase, LLC met with Dr. Hedayat, to discuss further the BAS in Software Development. Upon the program approval, Mr. Pesce committed to sponsor scholarships for ten students at \$5,000 each, as well as providing internships and employment upon the student's graduation.

**June 25, 2018:** Dr. Hedayat met with Britt Anderson and John Anderson from Merchant Consulting Service, Inc. to discuss scholarship funds for the BAS in Software Development and the announcement at the CEO Leadership Forums breakfast event in July.

**July 19, 2018:** A group of more than 50 Orlando business leaders and Valencia College officials met at a special breakfast event. At this event, Valencia College was presented with two checks totaling \$150,000, which will provide scholarships for baccalaureate degrees including \$50,000 for this proposed BAS in Software Development. The funds will become available upon state approval of the program. ([See Appendix B.1: U, Press Release on p. 84.](#))

**July 23, 2018:** Dr. Jeff Jones provided a letter of support from Dr. Dale Whittaker, newly appointed President of University of Central Florida. ([See Appendix B.1: V, Letter of Support, p. 85](#))

- 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
<b>APPRiSe</b>	2/12/18	Valencia College	As of 3/29/18, the comment period ended with no comments received.
<b>Public universities in college's service district</b>	4/2017 to date	University of Central Florida	Valencia College has had multiple communications and meetings with University of Central Florida regarding the BAS in Software Development.
	2/12/18	<b>DirectConnect Workgroup:</b> UCF, and state colleges within the university's service area.	Dr. Hedayat presented the workforce data on software development occupations within the Valencia College service area to the consortium workforce group.

	Date(s)	Institution	Description of activity
	4/2/18	<b>DirectConnect Consortium</b> met	Approved. (Referenced earlier, see <a href="#">Appendix B.1: P, Direct Connect Valencia UCF minutes, pp. 74-79, and p. 77 for specific reference to the BAS in Software Development</a> )
Regionally accredited institutions in the college's service district	4/5/18	University of Phoenix, Brian Lucas, Campus Director of the Central Florida Campus	Communicated via email intent to submit proposal for BAS in Software Development. Received communication back on 4/6/18. (Referenced earlier, <a href="#">Appendix B.1: Q, letter of support on p. 80</a> )
	5/3/18 5/18/18	Keiser University, Dr. Sparks, Dean of Academic Affairs, Orlando Campus	Communicated via email intent to submit proposal for BAS in Software Development. Received no response. Follow-up communication regarding BAS in Software Development. (As of July 26, no response was received.) (See <a href="#">Appendix B.1: W, Email Communications on p. 86</a> )

**ENROLLMENT PROJECTIONS AND FUNDING REQUIREMENTS**

5.1 Provide a brief explanation of the sources and amounts of revenue that will be used to start the program.

*Tuition, Florida College System Program Funds, and other student fees will fund the proposed BAS in Software Development.*

**Tuition:** Revenue is based on planned student enrollment as outlined in [Appendix Table A.2, p. 22](#), with the assumption that all of the student enrollment is Florida resident based. No tuition increases are projected over the four years in the table.

**College Operating Funds:** Dr. Carin Gordon Dean of Business, Information Technology & Public Service, East Campus has been overseeing the development of the BAS in Software Development program and will continue to oversee the implementation of the program. The expenditure of an estimated 10% of the dean's annual salary and benefits are not included in the revenue and expenditure budget since this cost is already funded by the College's operating budget and would be offset on the revenue side through the Florida College System Program Funds.

Currently there are three full-time a faculty with PhD's and 18 full-time faculty with Masters available to teach upper-level courses. The college has committed to hiring a new dedicated full-time tenure track faculty to start teaching the upper-level courses in Fall 2019. In year two (2020/21), a second full-time faculty will be hired.

For program budgeting purposes only "new" program expenditures have been included thus no revenue from the Florida College System Program Fund has been included since these costs are already a component of the College's recurring operating budget.

- 5.2 Provide a narrative justifying the estimated and projected program enrollments, outcomes, revenues and expenditures as they appear in Appendix A.2 Table.

*The projected enrollment for Valencia's Software Development BAS program is primarily based on Valencia's student majors in the Computer Programming and Analysis (CPA) AS degree, Computer Information Technology (CIT) AS degree, and Network Engineering Technology (NET) AS degree. As mentioned in [Section 3.1](#), a student survey overwhelmingly indicated (95%, question 3) that students were either highly interested or interested in pursuing the BAS degree. (Referenced earlier, [Appendix B.1: K, pp. 51-53.](#))*

**New Admissions:** *The College expects to admit 150 students in 2019-20, and 200 students in 2020-21 and each year thereafter.*

**Total Enrollment:** *1<sup>st</sup> year, 150; 2<sup>nd</sup> year, 350; and 3<sup>rd</sup> year and thereafter, 400.*

*During the first full academic year (2019-20) the college anticipates incurring operational expenses for the BAS upper-level courses at a projected amount of \$225,325; this includes faculty (full-time and part-time) salaries and fringes, faculty & staff Professional Development (PD) including travel, instructional material & supplies, minor equipment, and program marketing. Due to projected enrollment growth, the college anticipates an operating cost of \$414,151 for 2021-22, \$476,947 for 2022-23, and \$486,233 for the year 2023-22. Any future tuition increases have not been incorporated in these calculations. At this time, special equipment purchases are not required for this program.*

*Valencia College is committed to quality education. The college's Human Resources (HR) office has adopted a strong Employee Development (ED) program for all faculty and staff. The ED program includes professional leadership, in-service training opportunities for best teaching practices, and profession enhancement opportunities. (Formerly, SPD or Staff and Professional Development, the name and college policy were recently changed. See <https://tinyurl.com/yav32qoj> for more information.)*

*The college will re-invest revenues (carry forward funds) back into collegewide initiatives that enhance student learning and expand student access.*

*The projected budget ([Appendix Table A.2, pp. 23-25](#)) adequately reflects the needed annual budget through 2022-2023 to support instruction, faculty & staff professional development, student services and support system, program-marketing material, and the necessary materials and supplies.*

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## STUDENT COSTS: TUITION AND FEES

- 6.1 Anticipated cost for a baccalaureate degree (tuition and fees for lower and upper division credit hours) at the proposing FCS institution (tuition and fees x credit hours).

	Cost per credit hour			Number of credit hours		Total cost
Tuition & Fees for lower division:	\$103.06	X	Credit hours	87 (less 15 cr. @ \$0)	=	\$8,966.22 (\$7,420.32)
Tuition & Fees for upper division:	\$112.19	X	Credit hours	33 (less 11 cr. @ \$0)	=	\$3,702.27 (\$2,468.18)
<b>Tuition &amp; Fees (Total) X</b>			<b>Credit hours</b>	<b>120</b>	=	<b>\$12,613.71</b> (\$9,888.50)
<b>\$10,000 Bachelor's Degree</b>						(\$9,888.50)

*Please Note: 60 regionally accredited credit hours are transferred in, plus 27 Lower Division credit hours and 33 Upper Division credit hours for Grand Total of 120 credit hours.*

- 6.2 Estimated cost for a baccalaureate degree (tuition and fees) at each state university in the college's service district.

*\* [Note: Information below current as of 6/13/2018]*

**University of Central Florida:**

Tuition & Fees:	\$212.28	X	Total Cr. Hrs.	120	=	\$25,473.60
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- 6.3 Estimated cost for a baccalaureate degree (tuition and fees) at each nonpublic institution in the college's service district (if available) \*

*\* [Note: Information below current as of 6/13/2018]*

**Keiser University (Orlando):**

Tuition & Fees: <u>From their catalog, p. 694</u> <sup>(684)</sup>	\$11,832/ Semester	÷	12	\$986/cr.	X	120	=	\$118,320
	12-18 Cr. Hrs.	÷	18	\$657.33/cr.	X	120	=	\$78,880

*IPEDS Tuition Calculator estimates \$85,577 for 4 years at Keiser University.*

**University of Phoenix (Orlando):**

Tuition & Fees:	\$398	X	Total Cr. Hrs.	120	=	\$49,800
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Note. \*If the institution does not provide the tuition cost per credit hour, please provide the cost information provided on the institution's website.

## PROGRAM IMPLEMENTATION TIMELINE

7.1	APPRiSe notice:	February 12, 2018
7.2	Board of Trustees approval:	April 25, 2018
7.3	Notice of Intent:	May 24, 2018
7.4	Completed proposal submission:	September 4, 2018
7.5	Targeted State Board of Education consideration:	October 2018
7.6	SACSCOC accreditation at a more advanced level:	January 2019
7.7	Targeted initial teacher preparation program approval (if applicable):	NA
7.8	Targeted date upper division courses are to begin:	August 2019

## FACILITIES AND EQUIPMENT SPECIFIC TO PROGRAM AREA

- 8.1 Describe the existing facilities and equipment that will be utilized for the program.

*The Information Technology division has currently 18 dedicated computer lab classrooms (capacity 20 – 27), 5 dedicated general lecture classrooms (capacity of 25 and 36), and 21 faculty offices, one advisor office, and one administrator office.*

- 8.2 Describe the new facilities and equipment that will be needed for the program (if applicable).

*The current computer labs, general classrooms, and faculty/staff offices adequately support the required upper-level courses for the BAS Software Development program for the first four years of the program. All computers in the labs and faculty/staff offices; the required equipment and software are updated through the College's technology refresh program. The college leadership is also committed to allocating additional space as needed.*

## LIBRARY AND MEDIA SPECIFIC TO PROGRAM AREA

- 9.1 Describe the existing library and media resources that will be utilized for the program.

*Valencia's Libraries support the needs of all students, faculty, and staff by offering services including electronic library services, access to the internet, and information literacy instruction consistent with the degrees offered at the institution. The Library staff work closely with the department faculty to ensure that latest resources will be available to support the curriculum. Full-service libraries are located on all of Valencia's campuses.*

*The current library collections on Valencia's East Campus (campus identified to house the BAS in Software Development program) include more than 86,214 books, 203,670 e-books, 31,731 audiovisual materials, 49 print serial subscriptions, and 133 online databases. All students, including those predominantly engaged in distance learning, have access to online databases, e-book collections, and online library instruction tutorials. Through a statewide reciprocal agreement, students also have access to library materials from Florida public colleges and universities.*

Valencia librarians conducted a thorough inventory of library/media resources to identify current holdings that will support the BAS Software Development program, including books, e-books, audiovisual materials, serial subscriptions and online databases as illustrated in Table below:

**Existing Library/Media Resources  
Relevant to the BAS Software Development**

<i>Program</i>	<i>Books</i>	<i>E-Books</i>	<i>Print Subscriptions</i>	<i>E-Journals</i>	<i>Audiovisuals</i>	<i>Databases</i>
<i>BAS Software Development</i>	731	600	1	356	132	8

- 9.2 Describe the new library and media resources that will be needed for the program (if applicable).

Valencia librarians have projected a cost of approximately \$9,228.87 for new library/media resources needed to support the proposed BAS Software Development. Valencia librarians analyzed both the classes previously taught as part of the Software Development Program at UCF and Valencia’s proposed classes for the Software Development Program to identify relevant resources to support the proposed curriculum.

Strategies used to identify appropriate baccalaureate level materials for the Bachelor's degree in Software Development program included:

- a. Consult GOBI Library Collection Development System to identify both program related e-books and print resources.
- b. Review of the current program-related holdings at all Florida state college libraries.
- c. Review of the current program-related holdings of all Florida university college libraries.

The new materials needed are summarized in the table below and itemized with their initial costs in (See [Appendix B.1: X, Itemized New Library Materials, pp. 87-90.](#))

**Summary of New Library/Media Resources Needed Relevant Proposed Program**

<i>Program</i>	<i>Books</i>	<i>E-Books</i>
<i>BAS Software Development</i>	45	54

## ACADEMIC CONTENT

10.1 List the admission requirements for the program.

*Students must meet the following criteria:*

a) *An Associate in Science degree from a regionally accredited institution in Computer Programming & Analysis, or Computer Information Technology, or Network Engineering Technology.*

**OR**

b) *An Associate in Arts Degree from a regionally accredited institution*

**AND**

- *Completion of the required common prerequisites: MAC1105 – College Algebra, STA2023 – Statistical Methods, ECO2013 – Principles of Economics, CGS1060C – Introduction to Microcomputers, CGS1540C – Database Concepts and Design, COP1334 – Introduction to C++ Programming, **AND EITHER** CTS1134 – Networking Technologies **OR** CTS1650 – Networking Fundamentals.*

---

10.2 What is the estimated percentage of upper division courses in the program that will be taught by faculty with a terminal degree?

*The estimated percentage of upper division courses in the program that will be taught by faculty holding terminal degrees is expected to be 40 - 50%.*

---

10.3 What is the anticipated average student/teacher ratio for each of the first three years based on enrollment projections?

*The average student/faculty ratio will be 25:1. This practice will be maintained for the first four years.*

---

10.4 What is the anticipated SACSCOC accreditation date, if applicable?

*Valencia College was accredited to move from Level I to Level 2 accreditation in the 2009-10 academic year when it began to offer baccalaureate degrees. Valencia will submit a Substantive Change Prospectus to SACSCOC to offer the BAS in Software Development. SACSCOC is expected to reach a decision on this prospectus no later than June 2019.*

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10.5 What is the anticipated Florida Department of Education initial teacher preparation approval date, if applicable?

*N/A*

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10.6 What specialized program accreditation will be sought, if applicable?

*N/A*

---

10.7 What is the anticipated specialized program accreditation date, if applicable?

*N/A*

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- 10.8 Are there similar programs listed in the Common Prerequisites Manual for the CIP code (and track, if any) proposed for this program?  Yes  No

- *Information Systems Technology (BAS) (Track 4 of 4)*  
*(Valencia will be using this track.)*

- 10.9 List the established common prerequisites for this CIP code (and track, if any) as listed in the Common Prerequisites Manual proposed for this program:

*Information Systems Technology (BAS) (Track 4 of 4)*

		Cr. Hrs.	
	MACX105	3	College Algebra
	higher level mathematics		
	STAX023	3	Statistical Methods
	STAX014	3	
	ECOX013	3	
	ECOX023	3	
	SPCX608	3	Introduction to Oral Communication
	SPCX017	3	
	CETX179	3	Network Concepts and Operating System
	CTSX134	4	
	CTSX650	4	
	COPX000	3	Introduction to Programming
	COPX334	4	
	CGSX540C	3-4	Database Management

*FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.*

- 10.10 Describe any proposed revisions to the established common prerequisites for this CIP (and track, if any).

*Valencia College recommends the removal of STAX023/STAX014; ECOX013/ECOX023; and SPCX608/SPCX017 from this common prerequisite track. These general education courses could be completed as program graduation requirements.*

*The college will go through the common prerequisite process once the degree is approved.*

- 10.11 List all courses required once admitted to the baccalaureate program by term, in sequence. For degree programs with concentrations, list courses for each concentration area. Include credit hours per term, and total credits for the program: *(See next two pages)*

**BAS in Software Development**  
**AS to BAS**  
(60 credits lower division transfers in)

<b>YEAR 1 - TERM 1</b>		
Course No.	Course Title	Cr. Hr.
ENC 1102	English Composition II	3
GEB 1011	Introduction to Business	3
COP 3330C	Object-Oriented Programming	3
CTS 1134C	Network Essentials	3
<b>Year 1, Term 1 Total</b>		<b>12</b>

<b>YEAR 1 - TERM 2</b>		
Course No.	Course Title	Cr. Hr.
SPC 1608	Fundamentals of Speech	3
STA 2023	Statistical Methods	3
GEB 3213	Business Writing and Communication	3
CEN 3024C	Software Development I	3
<b>Year 1, Term 2 Total</b>		<b>12</b>

<b>YEAR 1 - TERM 3</b>		
Course No.	Course Title	Cr. Hr.
	General Education	6
CEN 4802C	Software Integration, Configuration, and Testing	3
CEN 4025C	Software Development II	3
<b>Year 1, Term 3 Total</b>		<b>12</b>

<b>YEAR 2 - TERM 1</b>		
Course No.	Course Title	Cr. Hr.
ECO 2023	Principles of Economics-Micro	3
BUL 2241	Business Law I	3
	OR	
CGS 2091C	Social, Legal, and Ethical Issues in IT	
ETI 4448C	Applied Project Management	3
CEN 4333C	Advanced Database Development	3
<b>Year 2, Term 1 Total</b>		<b>12</b>

<b>YEAR 2 - TERM 2</b>		
Course No.	Course Title	Cr. Hr.
CEN 4930	Seminar in Advanced Software Development	3
CIS 3304C	Management Information Systems	3
CEN 4910C	Software Development Project	3
	<i>Required upper-division Software Development elective course (Select One)</i>	3
CEN 4350C	Open Source Web Technologies	
CEN 4360C	Mobile Device Software Dev	
CEN 4370C	.NET Development using C#	
<b>Year 2, Term 2 Total</b>		<b>12</b>

**BAS in Software Development**  
**AA to BAS**  
(60 credits lower division transfers in)

YEAR 1 - TERM 1		
Course No.	Course Title	Cr. Hr.
CGS 2100C	Computer Fundamentals and Applications	3
GEB 1011	Introduction to Business	3
COP 3330C	Object-Oriented Programming	3
CTS 1134C	Network Essentials	3
<b>Year 1, Term 1 Total</b>		<b>12</b>

YEAR 1 - TERM 2		
Course No.	Course Title	Cr. Hr.
CTS 1131C	Computer Maintenance Essentials	3
COP 2220C	C Programming	3
GEB 3213	Business Writing and Communication	3
CEN 3024C	Software Development I	3
<b>Year 1, Term 2 Total</b>		<b>12</b>

YEAR 1 - TERM 3		
Course No.	Course Title	Cr. Hr.
COP 2822C	Web Site Development	3
CTS 1142C	Information Technology Project Management	3
CEN 4802C	Software Integration, Configuration, and Testing	3
CEN 4025C	Software Development II	3
<b>Year 1, Term 3 Total</b>		<b>12</b>

YEAR 2 - TERM 1		
Course No.	Course Title	Cr. Hr.
STA 2023	Statistical Methods	3
BUL 2241	Business Law I	3
OR		
CGS 2091C	Social, Legal, and Ethical Issues in IT	
ETI 4448C	Applied Project Management	3
CEN 4333C	Advanced Database Development	3
<b>Year 2, Term 1 Total</b>		<b>12</b>

YEAR 2 - TERM 2		
Course No.	Course Title	Cr. Hr.
CEN 4930	Seminar in Advanced Software Development	3
CIS 3304C	Management Information Systems	3
CEN 4910C	Software Development Project	3
<i>Required upper-division Software Development elective course (Select One)</i>		3
CEN 4350C	Open Source Web Technologies	
CEN 4360C	Mobile Device Software Dev	
CEN 4370C	.NET Development using C#	
<b>Year 2, Term 2 Total</b>		<b>12</b>

**BAS in Software Development**

AS/AA Credits Transferred In	60
Baccalaureate Credit Hours (27 Lower Division, 33 Upper Division)	60
<b>Total</b>	<b>120</b>

- 
- 10.12 Is the program being proposed as a limited access program? (If yes, identify admission requirements and indicate enrollment capacity):  Yes  No

### PROGRAM TERMINATION

- 11.1 Plan of action if program must be terminated, including teach-out alternatives for students.

*Valencia has a detailed process for program discontinuation identified in the Program Development Process on (See [Appendix B1. J, Valencia College Program Development Process, p. 50](#)). The following steps will be taken, in the event that it becomes necessary for Valencia to terminate the BAS in Software Development program.*

*Based on annual program reviews or evaluations the college will make a good faith effort to inform and assist affected students, faculty, administrative and support staff in a timely manner to provide minimal disruption to their course of study or professional careers. This includes a comprehensive analysis of workforce demand, enrollment data, completion rates, job placement rates, college resources, and community needs warrants program termination.*

*The lead academic dean in the program area will develop a plan and a Teach-Out Plan for the discontinuation of the program. The plan will include the date of closure of the program and communication with students, faculty, and staff about the closing of the program.*

- Establish a phase-out timeline.*
- Students who will be affected by the closing of the program will be notified and provided information about the discontinuation of the program. Students will be provided with program options (if any), and how required courses within the program will be scheduled and offered so that students interested can complete their program within a specified period of time.*
- Faculty and staff related to the program will be informed about the discontinuation of the program. The college will review other potential program areas of need in which faculty are qualified to teach and/or provide assistance in identifying other institutions with potential employment opportunities (if needed).*
- Develop and submit a plan for discontinuation for SACSCOC approval in advance of implementation of the discontinuation.*
- Notification of the discontinuation will be submitted to the Florida College System.*
- Other State Colleges offering the program locally have agreed to accept students who desire to complete outside of the phase-out timeline.*
- External accreditation will be notified of the discontinuation (if applicable).*

**Appendix Table A.1.**

**INSTRUCTIONS FOR COMPLETING THE DEMAND SECTION OF APPENDIX TABLE A.1.1 and A.1.1.2:** 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. Complete table A.1.1.2 in the same manner as A.1.1 for any additional sources of employment projections. Duplicate Table A.1.1.2 for additional sources as needed.

<b>DEMAND: FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY (DEO) EMPLOYMENT PROJECTIONS</b>											
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‡	
<b>Appendix A.1.1: CIP to SOC Crosswalk from DEO/LMI</b>											
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, Applications	151122	Orange/Osceola Counties	4,529	5,366	3,260	408	\$42.95	\$89,336	A	B	
Software Developers, Systems Software	151132	Orange/Osceola Counties	2,544	2,885	1,671	209	\$50.35	\$104,728	B	B	
<b>Total within CIP to SOC Crosswalk</b>						<b>1,261</b>	<b>\$46.51</b>	<b>\$97,113</b>			

**INSTRUCTIONS FOR COMPLETING THE SUPPLY SECTION OF APPENDIX TABLE A.1.2:** 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.

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

**INSTRUCTIONS FOR COMPLETING THE ESTIMATES OF UNMET NEED SECTION OF APPENDIX TABLE A.1.3:** To complete the following table, column A should be derived from Tables A.1.1 and A.1.1.2 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 and A.1.1.2 for total job openings and Table A.1.2 for most recent year and 5-year average (these figures should be same for all sources). 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. Add rows for additional sources as needed.

<b>ESTIMATES OF UNMET NEED</b>						
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	
A.1.1	DEO	1,261	196	171	1,065	1,090

## Appendix Table A.2

### INSTRUCTIONS FOR COMPLETING THE PROJECTED BACCALAUREATE PROGRAM ENROLLMENT SECTION OF APPENDIX TABLE A.2:

To complete the following table, enter the projected enrollment information for the first four years of program implementation. Unduplicated headcount enrollment refers to the actual number of students enrolled. Full-time equivalent (FTE) refers to the full-time equivalent of student enrollment.

Program Student Credit Hours for Summer term 9 credit hours with Fall and Spring at 12 credit hours. First year begins in Fall and is calculated without Summer. Remaining years include the summer term.

<b>PROJECTED BACCALAUREATE PROGRAM ENROLLMENT</b>		Year 1	Year 2	Year 3	Year 4
		19/20	20/21	21/22	22/23
A.2.1	Unduplicated headcount enrollment:				
A.2.1.1	Admitted Student Enrollment (First-time)	150	200	200	200
A.2.1.2	Total Admitted Student Enrollment	150	350	400	400
A.2.2	FTE Enrollment:				
A.2.2.1	Program Student Credit Hours (Resident)	2,700	8,400	9,600	9,600
A.2.2.2	Program Student Credit Hours (Non-Resident)	0	0	0	0
A.2.2.3	Total Program Student Credit Hours	2,700	8,400	9,600	9,600
A.2.2.4	FTE (30 credits) – (Resident)	90	280	320	320
A.2.2.5	FTE (30 credits) – (Non-Resident)	0	0	0	0
A.2.2.6	Total Program FTE	90	280	320	320

**INSTRUCTIONS FOR COMPLETING THE PROJECTED DEGREES AND WORKFORCE OUTCOMES SECTION OF APPENDIX TABLE A.2:** To complete the following table, enter the projected number of degrees awarded, the projected number of graduates employed and the projected average starting salary for program graduates for the first four years of program implementation.

<b>PROJECTED DEGREES AND WORKFORCE OUTCOMES</b>		Year 1	Year 2	Year 3	Year 4
		19/20	20/21	21/22	22/23
A.2.3	Degrees	0	150	200	200
A.2.4	Number Employed	0	150	200	200
A.2.5	Average Starting Salary	\$64,693	\$67,754	\$70,959	\$74,316

**INSTRUCTIONS FOR COMPLETING THE REVENUES AND EXPENDITURES SECTION OF APPENDIX TABLE A.2:** To complete the following table, enter the projected program expenditures and revenue sources for the first four years of program implementation.

	Year 1 19/20	Year 2 20/21	Year 3 21/22	Year 4 22/23
<b>REVENUES AND EXPENDITURES</b>				
<b>I. PROJECTED PROGRAM EXPENDITURES</b>				
INSTRUCTIONAL				
1. Faculty Full-Time FTE	1.00	2.00	2.00	2.00
2. Faculty Part-Time FTE	2.00	6.33	7.67	7.67
1. Faculty Full-Time Salaries/Benefits	\$63,911	\$195,568	\$199,478	\$203,469
2. Faculty Part-Time Salaries/Benefits	\$46,210	\$149,180	\$184,374	\$188,059
3. Faculty Support: Lab Assistants	\$0	\$0	\$0	\$0
OPERATING EXPENSES				
1. Academic Administration	\$11,500	\$11,965	\$12,204	\$12,697
2. Materials/Supplies	\$5,000	\$7,000	\$7,500	\$7,500
3. Travel	\$500	\$1,500	\$1,500	\$1,500
4. Communication/Technology	\$0	\$0	\$0	\$0
5. Library Support	\$0	\$0	\$0	\$0
6. Student Services Support	\$22,293	\$22,739	\$45,487	\$46,397
7. Professional Services	\$10,000	\$10,200	\$10,404	\$10,612
8. Accreditation	\$0	\$0	\$0	\$0
9. Support Services	\$0	\$0	\$0	\$0
CAPITAL OUTLAY				
1. Library Resources	\$1,000	\$1,000	\$1,000	\$1,000
2. Information Technology Equipment	\$12,500	\$12,500	\$12,500	\$12,500
3. Other Equipment	\$2,500	\$2,500	\$2,500	\$2,500
4. Facilities/Renovation	\$0	\$0	\$0	\$0
<b>TOTAL PROJECTED PROGRAM EXPENDITURES</b>	<b>\$225,325</b>	<b>\$414,151</b>	<b>\$476,947</b>	<b>\$486,233</b>

	Year 1 19/20	Year 2 20/21	Year 3 21/22	Year 4 22/23
<b>II. NATURE OF EXPENDITURES</b>				
1. Recurring	\$175,414	\$414,151	\$476,947	\$486,233
2. Nonrecurring	\$49,911	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$225,325</b>	<b>\$414,151</b>	<b>\$476,947</b>	<b>\$486,233</b>
<b>III. SOURCES OF FUNDS</b>				
<b>A. REVENUE</b>				
1. Special State Nonrecurring	\$0	\$0	\$0	\$0
2. Upper-Level - Resident Student Tuition Only	\$302,913	\$942,396	\$1,077,024	\$1,077,024
Upper-Level - Nonresident Student Fees Only	0	0	0	0
Upper-Level - Other Student Fees	0	0	0	0
3. Contributions or Matching Grants	0	0	0	0
4. Other Grants or Revenues	0	0	0	0
5. Florida College System Program Funds	0	0	0	0
6. Unrestricted Fund Balance	0	0	0	0
7. Interest Earnings	0	0	0	0
8. Auxiliary Services	0	0	0	0
9. Federal Funds – Other	0	0	0	0
	0	0	0	0
<b>B. CARRY FORWARD</b>	\$0	\$77,588	\$605,833	\$1,205,909
<b>TOTAL FUNDS AVAILABLE</b>	<b>\$302,913</b>	<b>\$1,019,984</b>	<b>\$1,682,857</b>	<b>\$2,282,933</b>
<b>TOTAL UNEXPENDED FUNDS (CARRY FORWARD)</b>	<b>\$77,588</b>	<b>\$605,833</b>	<b>\$1,205,909</b>	<b>\$1,796,700</b>

## SUPPLEMENTAL MATERIALS

B.1 Summarize any supporting documents included with the proposal, such as meeting minutes, survey results, letters of support, and other supporting artifacts.

- A [UCF Students Earning Bachelor's Degrees in CIP 11.0103 \(Residents of Orange and Osceola Counties\)](#) (referenced on p. 3)
- B [US News and World Report article](#) (referenced on p. 3)
  - [First Reference](#)
  - [Second Reference](#)
- C [Letter of Support - Uday Katira, Managing Director, Deloitte US Delivery Center](#) (Referenced on , p. 4)
- D [EMSI Analyst Job Postings Report, Time Frame: April 2017 – April 2018 for Orange and Osceola counties and all occupations listed in table A.1.](#) (Referenced on p. 4)
- E [Employer Letter of Support - Joe Cosmano, SVP Engineering Services, iboss](#) (Referenced on , p. 5)
- F [Employer Letter of Support - Andrew Kozlik, Engineering Manager, Unikey Technologies](#) (Referenced on , p. 5)
- G [Employer Letter of Support - Christopher Maitland, Technical Solutions Engineer, Sprint](#) (Referenced on , p. 5)
- H [Employer Letter of Support - James McQuiggan, Chapter President, International Information Systems Security Certification Consortium, Inc. \(ISC<sup>2</sup>\)](#) (Referenced on , p. 5)
- I [Employer Letter of Support - Paula Stenzler, Senior Director Engineering & Safety Services, Universal Creative, Universal Parks and Resorts](#) (Referenced on , p. 5)
- J [Valencia College Program Development Process](#) (Referenced on pp. 5, and 18)
- K [Valencia College Student Survey and results](#) (referenced on pp. 6, 7, 10, 25)
- L 1) [City of Orlando Smart Cities Announcement, posted online. http://www.cityoforlando.net/news/2017/02/city-of-orlando-selected-to-be-part-of-2017-smart-cities-council-readiness-challenge/.](#) (Referenced on p. 6)  
2) [Employer Letter of Support: Chris Castro, Director of Sustainability, City of Orlando](#)
- M [Valencia College District Board of Trustees Meeting Minutes, April 25, 2018](#) (Referenced on p. 6 & 7)
- N [Valencia College District Board of Trustees BAS Presentation, April 25, 2018](#) (Referenced on p. 6 & 7)
- O [Valencia College Curriculum Approval – June 13, 2018 Meeting Minutes](#) (referenced on p. 7)
- P [Valencia UCF Direct Connect, April 2, 2018 Meeting Minutes](#) (referenced on p. 7)
- Q [Higher Education Letter of Support: Brian Lucas, University of Phoenix](#) (Referenced on p. 7)
- R [Employer Letter of Support: Alvaro Pesce, MasterBase, LLC](#) (Referenced on p. 7)
- S [SUS Letter of Support: University of Central Florida- Dr. Jeffrey Jones, Vice Provost, UCF Connect](#) (Referenced on p. 8)
- T [Agency Letter of Support: Pamela Nabors, CareerSource Central Florida](#)
- U [Press Release CEO Organization Donates \\$150,000 for Scholarships to Valencia College](#) (Referenced on p. 8)
- V [SUS Letter of Support: University of Central Florida- Dr. Dale Whittaker, President](#) (Referenced on p. 8)
- W [Higher Education Communications - Keiser University](#) (Referenced on p. 9)
- X [Valencia New Library/Media Resources Needed](#) (Referenced on pp. 12-13)
- Y [Other Employer Letters of Support: 6/13/18 - Suzanne DeBusk, DragonPoint Software, Inc.](#)
- Z [Other Employer Letters of Support: 6/14/18 - Daryl Dixon, VALiNTRY Services, LLC](#)
- AA [Other Employer Letters of Support: 6/14/18 - Tim Giuliani, Orlando Economic Partnership](#)
- BB [Other Employer Letters of Support: 6/14/18 - Declan Link, Link2Solutions, LLC](#)
- CC [Other Employer Letters of Support: 6/18/18 - Warren Dietel, Puff-n-Stuff Events/Catering](#)
- DD [Other Employer Letters of Support: 6/23/18 - Heath Hensley, Chief Technology Officer, PowerDMS](#)
- EE [Other Employer Letters of Support: 6/25/18 - Raymond T. Watson, ELRI](#)
- FF [Other Employer Letters of Support: 6/25/18 – David H. Ugan, VP - IT, Foundation Partners Group](#)
- GG [Other Employer Letters of Support: 7/20/18 – Chris Cucci, Senior Vice President, Center State Bank](#)
- HH [Other Employer Letters of Support: 8/21/18 – Geoffrey S. Gallo, Senior Vice President, Grennan Fender](#)
- II [Email notification of UCF Discontinuation of BAS degree \[in General Studies\] – Jeff Jones, UCF](#)
- JJ [Memberships – Information Technology Industry Advisory Council](#)
- KK [Memberships – Energy Management and Controls Technology Industry Advisory Council](#)
- LL [Memberships – Electronics Engineering Technology Industry Advisory Council](#)
- MM [Memberships – CEO Leadership Forums Sponsor Organizations](#)
- NN [Memberships – DirectConnect Consortium Workforce Team](#)
- OO [Memberships - DirectConnect Consortium Academic Coordination Committee \(CACC\) Team](#)

B.2 Objections or Alternative Proposals.....p. 109

# Supporting Documents

## B.1

**A UCF Students Earning Bachelor's Degrees in CIP 11.0103 (Residents of Orange and Osceola Counties)**

1

**Students Earning Bachelor Degrees in CIP 11.xxxx  
Displaying County at Time of Admission**  
College: College of Engr & Comp Sci

County	Bachelor							
	2015-16				2016-17			
	Degree CIP Code		Total AY		Degree CIP Code		Total AY	
	11.0101	11.0103	N	%	11.0101	11.0103	N	%
Alachua	.	.	.	.	1	1	2	0.5
Bay	2	.	2	0.5	1	1	2	0.5
Brevard	11	16	27	6.9	19	18	37	10.0
Broward	19	19	38	9.7	8	19	27	7.3
Charlotte	1	.	1	0.3	.	.	.	.
Citrus	1	.	1	0.3	.	1	1	0.3
Clay	1	.	1	0.3	.	2	2	0.5
Collier	1	5	4	1.0	3	2	5	1.3
Columbia	.	1	1	0.3	.	.	.	.
Dade	5	10	15	3.8	10	5	15	4.0
Desoto	.	1	1	0.3	.	.	.	.
Duval	7	3	10	2.6	7	2	9	2.4
Escambia	.	2	2	0.5	1	.	1	0.3
Flagler	.	.	.	.	2	1	3	0.8
Hendry	1	.	1	0.3	.	.	.	.
Hernando	.	1	1	0.3	1	2	3	0.8
Hillsborough	5	3	8	2.1	3	4	7	1.9
Lake	2	5	5	1.3	5	3	8	2.2
Lee	5	5	10	2.6	3	2	5	1.3
Leon	1	2	3	0.8	1	.	1	0.3
Manatee	4	2	6	1.5	2	5	7	1.9
Marion	3	5	8	2.1	.	2	2	0.5
Martin	.	.	.	.	2	1	3	0.8
Nassau	.	.	.	.	1	.	1	0.3
Non-Florida	5	5	10	2.6	8	2	10	2.7
Non-USA	1	.	1	0.3	1	.	1	0.3
Okaloosa	1	1	2	0.5	4	3	7	1.9
Okeechobee	.	2	2	0.5	1	.	1	0.3
Orange	42	56	100	25.6	43	41	64	22.6
Osceola	3	8	11	2.8	6	5	11	3.0
Palm Beach	11	8	19	4.9	13	13	26	7.0
Pasco	1	4	5	1.3	1	2	3	0.8
Pinellas	9	4	13	3.3	8	8	16	4.3
Polk	9	6	15	3.8	3	7	10	2.7
Santa Rosa	.	.	.	.	1	.	1	0.3
Sarasota	2	2	4	1.0	2	1	3	0.8
Seminole	25	17	42	10.8	15	15	30	8.1
St. Johns	4	.	4	1.0	3	1	4	1.1
St. Lucie	3	5	8	2.1	2	6	8	2.2
Sumter	.	1	1	0.3	.	.	.	.
Suwannee	.	.	.	.	1	.	1	0.3
Volusia	4	4	8	2.1	5	8	13	3.5
Walton	.	.	.	.	.	1	1	0.3
<b>Total (ALL)</b>	<b>169</b>	<b>201</b>	<b>390</b>	<b>100.0</b>	<b>187</b>	<b>184</b>	<b>371</b>	<b>100.0</b>

**B US News and World Report, Software Developer**

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



## Hot Jobs for College Grads: Software Developer

By [Rebecca Koenig](#), Staff Writer | May 16, 2018, at 3:27 p.m.

It's no surprise that software developer positions are among the best for recent college graduates. After all, the profession was No. 1 in this year's [U.S. News Best Jobs](#) rankings.

"I don't think a day goes by that we're not asked to download an application," McDonald says.

[Software developers](#) use computer code to develop applications and programs for websites and mobile phones. In ZipRecruiter job advertisement data, the title "software test engineer" pops up frequently; these professionals run quality-control checks on programs to make sure they're working as intended.

### Software Developer Overview

#1 in [Best Technology Jobs](#) | Overall Score 8.3 / 10



#### What is a Software Developer?

Software developers invent the technologies that we sometimes take for granted every day. For instance, that app that rings, sings or buzzes you out of a deep sleep in the morning? A software developer helped design that. And when you roll into the office and turn on your computer, clicking and scrolling through social media, music and your personal calendar – software developers had a big hand in shaping those, too. You might spend your lunch shopping, and before you make that big

purchase you check your bank account balance using your phone. Later, you're cooking a new recipe from that great app your friend told you about. As you look over the course of your day, you come to see that software developers are the masterminds behind the technologies you now can't imagine living without.

The best software developers are creative and have the technical expertise to carry out innovative ideas. You might expect software developers to sit at their desks designing programs all day – and they do, but their job involves many more responsibilities. They could spend their days working on a client project from scratch and writing new code. But they could also be tasked with maintaining or improving the code for programs that are already up and running. Software developers also check for bugs in software. And although the job does involve extreme concentration and chunks of uninterrupted time, software developers have to collaborate with others, including fellow developers, management or clients. Developers are often natural problem solvers who possess strong analytical skills and the ability to think outside the box.

Software developers are in high demand right now. They're 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 open up.

First Reference

### Quick Stats

 **\$100,080**  
MEDIAN SALARY

 **1.6%**  
UNEMPLOYMENT RATE

 **253,400**  
NUMBER OF JOBS

## Rankings

Software Developers rank #1 in [Best Technology Jobs](#). Jobs are ranked according to their ability to offer an elusive mix of factors. Read more about [how we rank the best jobs](#).

Software Developers are ranked:

-  #1 in [Best Technology Jobs](#)
-  #1 in [The 100 Best Jobs](#)
-  #1 in [Best STEM Jobs](#) **Second Reference**



Read about [how we rank the best jobs](#).

## Best Technology Jobs

- #1 Software Developer
- #2 Information Security Analyst
- #3 IT Manager
- #4 Computer Systems Analyst
- #5 Computer Network Architect



 [See the full rankings list](#)

**C Valencia Service Area Employer Letter of Support:**

Deloitte US Delivery Center, Uday Katira, Managing Director (ref. p. 4)

**Deloitte.**

July 3, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

Deloitte enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. The Deloitte US Delivery Center hires technical talent for a variety of market offerings. Many of our hiring needs focus on software development for a wide range of technical skillsets including Java, .NET, Salesforce, and cloud development.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the Technology Industry and our workforce need in Lake Mary, Florida. We are continuously in need of highly qualified technical talent at a baccalaureate level in particular in areas like cloud, software, and application development. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,



Uday Katira  
Managing Director  
Deloitte US Delivery Center  
[ukatira@deloitte.com](mailto:ukatira@deloitte.com)

- D **EMSI Analyst Job Postings Report**, Time Frame: April 2017 – April 2018 for Orange and Osceola counties and all occupations listed in table A.1.

# Job Posting Analytics

Emsi Q2 2018 Data Set

June 2018

## BAS Software Development - CIP 11.0103 Occupations

- Computer and Information Systems Managers
- Computer Network Architects
- Computer Systems Analysts
- Information Security Analysts
- Software Developers, Systems Software
- Software Developers, Application

**Valencia College**

**VALENCIA COLLEGE**

PO Box 3026  
Orlando, Florida 32802  
407.299.5000

# Parameters

## Regions

Code	Description
12095	Orange County, FL
12097	Osceola County, FL

## Occupations

Code	Description
11-3021	Computer and Information Systems Managers
15-1121	Computer Systems Analysts
15-1122	Information Security Analysts
15-1132	Software Developers, Applications
15-1133	Software Developers, Systems Software
15-1143	Computer Network Architects

## Education Levels

### Description

Bachelor's degree

## Part-Time / Full-Time

Full-time (> 32 hours)

## Company Type

Non-Staffing Companies

## Keyword Search

## Timeframe

Apr 2017 - Apr 2018

## Job Postings Summary

<b>726</b> <b>Unique Postings</b> <small>3,842 Total Postings</small>	<b>5 : 1</b> <b>Posting Intensity</b> <small>Regional Average: 4 : 1</small> 	<b>38 days</b> <b>Median Posting Duration</b> <small>Regional Average: 31 days</small>
---	--	--

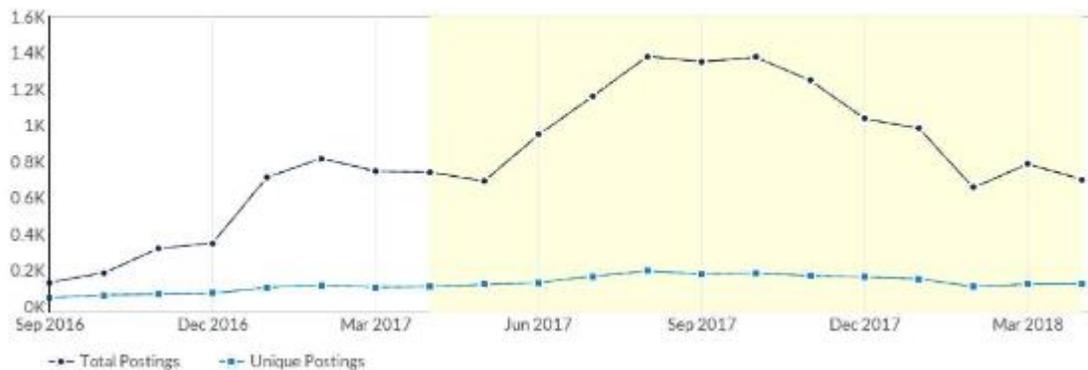
There were **3,842** total job postings for your selection from April 2017 to April 2018, of which **726** were unique. These numbers give us a Posting Intensity of **5-to-1**, meaning that for every 5 postings there is 1 unique job posting. This is higher than the Posting Intensity for all other occupations and companies in the region (4-to-1), indicating that they may be trying harder to hire for this position.

## Job Postings Regional Breakdown



County	Unique Postings (Apr 2017 - Apr 2018)
Orange County, FL	644
Osceola County, FL	82

## Total vs. Unique Postings Trend



## Top Companies Posting (Apr 2017 - Apr 2018)

Company	Total/ Unique	Posting Intensity	Median Posting Duration
The Walt Disney Company	1,297 / 207	6 : 1	54 days
Anthem, Inc	598 / 205	3 : 1	20 days
Infor Global Solutions, Inc	224 / 38	6 : 1	66 days
Holiday Retirement	377 / 20	19 : 1	43 days
Ellucian Inc	78 / 17	5 : 1	61 days
Valinry Corporation	98 / 13	8 : 1	68 days
Automatic Data Processing, Inc.	145 / 12	12 : 1	48 days
AMF Bowling Inc.	12 / 10	1 : 1	25 days
Garther, Inc.	33 / 10	3 : 1	12 days
Full Sail University	30 / 9	3 : 1	61 days
Walt Disney Attractions	45 / 9	5 : 1	39 days
Consulate Management Company, LLC	21 / 5	4 : 1	59 days
L-3 Communications Holdings Inc.	9 / 5	2 : 1	31 days
Lsq Corp	28 / 5	6 : 1	47 days
AON PLC	16 / 4	4 : 1	50 days
Centurylink, Inc.	7 / 4	2 : 1	4 days
Northrop Grumman Corporation	95 / 4	24 : 1	84 days
Pentair, Inc	30 / 4	8 : 1	31 days
RECRUIT HOLDINGS CO.,LTD.	4 / 4	1 : 1	2 days
Rapid Interiors	6 / 4	2 : 1	6 days
Rose International, Inc	106 / 4	27 : 1	49 days
Sonobi	20 / 4	5 : 1	33 days
Viewpoint, Inc.	34 / 4	9 : 1	15 days
A Leg Up	3 / 3	1 : 1	16 days
Aecom	50 / 3	17 : 1	42 days
Control Microsystems Inc	7 / 3	2 : 1	33 days
Indotronic International Corp	11 / 3	4 : 1	30 days
Mphasis Corporation	4 / 3	1 : 1	20 days

Company	Total/ Unique	Posting Intensity	Median Posting Duration
Renature, Inc.	4 / 3	1 : 1	25 days
Sprint Corporation	20 / 3	7 : 1	39 days
Tech Solutions	4 / 3	1 : 1	96 days
Tekpartners	8 / 3	3 : 1	36 days
Veterans Health Administration	30 / 3	10 : 1	77 days
Vmax Vision, Inc.	12 / 3	4 : 1	63 days
ABS Information Services Inc	5 / 2	3 : 1	2 days
Adventist Health System/Sunbelt, Inc.	5 / 2	3 : 1	64 days
Bogen Communications, Inc.	2 / 2	1 : 1	4 days
Conduent	21 / 2	11 : 1	4 days
Florida Hospital	5 / 2	3 : 1	65 days
Izea Inc.	15 / 2	8 : 1	39 days
Lafayette Group, Inc.	21 / 2	11 : 1	43 days
Newconfig LLC	3 / 2	2 : 1	55 days
Ocean Optics, Inc.	2 / 2	1 : 1	125 days
The North Highland Company	7 / 2	4 : 1	18 days
Unitedhealth Group Incorporated	13 / 2	7 : 1	34 days
Wavelink Corporation	2 / 2	1 : 1	256 days
3d Flight Simulation Co	1 / 1	1 : 1	402 days
Advanced Recovery Systems Inc	3 / 1	3 : 1	n/a
Adventist	2 / 1	2 : 1	n/a
Adventist Health System	1 / 1	1 : 1	98 days

### Top Cities Posting (Apr 2017 - Apr 2018)

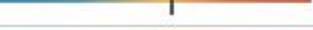
City	Total/ Unique	Posting Intensity	Median Posting Duration
Maitland, FL	1,354 / 349	4 : 1 	31 days
Lake Buena Vista, FL	1,047 / 169	6 : 1 	46 days
Winter Park, FL	690 / 83	8 : 1 	48 days
Celebration, FL	485 / 81	6 : 1 	53 days
Apopka, FL	160 / 22	7 : 1 	72 days
Ocoee, FL	75 / 8	9 : 1 	24 days
Windermere, FL	11 / 4	3 : 1 	28 days
Union Park, FL	3 / 3	1 : 1 	257 days
Winter Garden, FL	3 / 2	2 : 1 	6 days
Alafaya, FL	1 / 1	1 : 1 	46 days
Buena Vista, FL	3 / 1	3 : 1 	10 days
Lockhart, FL	1 / 1	1 : 1 	124 days
Orlando, FL	3 / 1	3 : 1 	34 days
Saint Cloud, FL	6 / 1	6 : 1 	99 days

### Top Posted Occupations (Apr 2017 - Apr 2018)

Occupation (SOC)	Total/ Unique	Posting Intensity	Median Posting Duration
Software Developers, Applications	1,383 / 263	5 : 1 	40 days
Computer Systems Analysts	1,230 / 219	6 : 1 	33 days
Computer and Information Systems Managers	722 / 158	5 : 1 	44 days
Information Security Analysts	211 / 39	5 : 1 	35 days
Computer Network Architects	157 / 31	5 : 1 	35 days
Software Developers, Systems Software	139 / 16	9 : 1 	47 days

## Top Posted Job Titles (Apr 2017 - Apr 2018)

Job Title	Total/ Unique	Posting Intensity	Median Posting Duration
Software Engineer	555 / 82	7:1 	57 days
Business Analyst (Computer and Mathematical)	202 / 46	4:1 	19 days
Systems Analyst	301 / 34	9:1 	42 days
Senior IT Consultant	67 / 26	3:1 	22 days
Java Developer	65 / 17	4:1 	15 days
.Net Developer	93 / 16	6:1 	57 days
Technology Manager	59 / 15	4:1 	40 days
Product Manager (Management)	45 / 12	4:1 	54 days
Business Analyst (Business and Financial Operations)	32 / 11	3:1 	25 days
Information Technology (IT) Systems Analyst	44 / 11	4:1 	32 days
Systems Engineer (Computer and Mathematical)	42 / 11	4:1 	25 days
Technical Lead	25 / 11	2:1 	52 days
Business Systems Consultant	25 / 10	3:1 	16 days
Information Security Analyst	79 / 10	8:1 	20 days
Systems Manager	25 / 10	3:1 	31 days
Network Engineer	74 / 9	8:1 	88 days
Applications Analyst	113 / 7	16:1 	46 days
Cloud Engineer Architect	30 / 7	4:1 	68 days
Data Analytics Manager	30 / 7	4:1 	65 days
Financial Systems Manager	71 / 7	10:1 	44 days
Information Security Specialist	30 / 7	4:1 	43 days
Software Developer	28 / 7	4:1 	60 days
Technical Analyst	73 / 7	10:1 	31 days
Business Intelligence Developer	56 / 6	9:1 	15 days
Director of Data Management	24 / 6	4:1 	37 days
Information Analyst	24 / 6	4:1 	38 days
Information Technology (IT) Manager	21 / 6	4:1 	17 days
Senior Java Software Engineer	44 / 6	7:1 	57 days

Job Title	Total/ Unique	Posting Intensity	Median Posting Duration
Android Developer	12 / 5	2 : 1 	93 days
Application Architect	10 / 5	2 : 1 	32 days
Business Consultant	20 / 5	4 : 1 	67 days
Content Director	23 / 5	5 : 1 	97 days
Data Analyst (Computer and Mathematical)	15 / 5	3 : 1 	31 days
Data Engineer	30 / 5	6 : 1 	16 days
iOS Developer	16 / 5	3 : 1 	61 days
Performance Engineer (Computer and Mathematical)	31 / 5	6 : 1 	102 days
Security Engineer	28 / 5	6 : 1 	47 days
Technical Architect	29 / 5	6 : 1 	49 days
Business Intelligence Manager	36 / 4	9 : 1 	43 days
Communications Analyst	46 / 4	12 : 1 	33 days
Front-End Developer	13 / 4	3 : 1 	40 days
HRIS Analyst	11 / 4	3 : 1 	42 days
Information Developer	32 / 4	8 : 1 	54 days
Information Security Manager	20 / 4	5 : 1 	9 days
Product Engineer	31 / 4	8 : 1 	31 days
Program Manager	10 / 4	3 : 1 	21 days
Programmer	26 / 4	7 : 1 	29 days
Security Manager (Computer and Mathematical)	32 / 4	8 : 1 	41 days
Solutions Architect	22 / 4	6 : 1 	6 days
Staff Software Developer	9 / 4	2 : 1 	2 days

Skill	Frequency in Job Postings	Postings with Skill / Total Postings (4/17 - 4/18)	Frequency in Worker Profiles	Profiles with Skill / Total Profiles (2016 - 2018)
Amazon Web Services	8%	60 / 726	1%	155 / 14,389
Data Mining	7%	51 / 726	1%	98 / 14,389
Business Intelligence	7%	50 / 726	6%	921 / 14,389
Automation	7%	48 / 726	5%	716 / 14,389
Customer Relationship Management	7%	48 / 726	5%	759 / 14,389
Software Engineer	7%	48 / 726	15%	2,168 / 14,389
Business Analysis	6%	46 / 726	9%	1,307 / 14,389
Business Process Improvement	6%	44 / 726	11%	1,551 / 14,389
Systems Design	6%	44 / 726	4%	607 / 14,389
Management Consulting	6%	43 / 726	2%	274 / 14,389
Change Management	5%	39 / 726	4%	577 / 14,389
Extensible Markup Language (XML)	5%	39 / 726	12%	1,663 / 14,389
Cascading Style Sheets (CSS)	5%	36 / 726	9%	1,302 / 14,389
Acceptance Testing	5%	35 / 726	2%	296 / 14,389
C (Programming Language)	5%	33 / 726	12%	1,744 / 14,389
Systems Development Life Cycle	5%	33 / 726	10%	1,488 / 14,389
Web Services	5%	33 / 726	6%	867 / 14,389
Extract Transform Load (ETL)	4%	32 / 726	2%	306 / 14,389
C++ (Programming Language)	4%	31 / 726	14%	1,951 / 14,389
Big Data	4%	30 / 726	1%	79 / 14,389
Debugging	4%	30 / 726	3%	376 / 14,389
Dashboard	4%	28 / 726	1%	137 / 14,389
Operating Systems	4%	28 / 726	8%	1,190 / 14,389
Product Quality Assurance	4%	28 / 726	2%	304 / 14,389
Apache Tomcat	4%	27 / 726	2%	230 / 14,389
Data Management	4%	27 / 726	2%	301 / 14,389
Decision Support Systems	4%	26 / 726	0%	0 / 14,389
Test Planning	4%	26 / 726	2%	318 / 14,389
Business Support Systems	3%	25 / 726	0%	0 / 14,389
Computer Engineering	3%	24 / 726	1%	130 / 14,389
Node.JS	3%	24 / 726	1%	201 / 14,389
Management Information Systems	3%	23 / 726	3%	365 / 14,389
Software Engineering	3%	23 / 726	19%	2,776 / 14,389
Enterprise Resource Planning	3%	22 / 726	3%	437 / 14,389
Linux	3%	22 / 726	12%	1,659 / 14,389

## Top Common Skills



## Top Common Skills

Skill	Frequency in Job Postings	Postings with Skill / Total Postings (4/17 - 4/18)	Frequency in Workforce Profiles	Profiles with Skill / Total Profiles (2016 - 2018)
Management	57%	412 / 726	50%	7,144 / 14,389
Innovation	47%	339 / 726	2%	270 / 14,389
Communications	32%	233 / 726	9%	1,230 / 14,389
Operations	31%	227 / 726	18%	2,535 / 14,389
Leadership	26%	186 / 726	20%	2,934 / 14,389
Information Technology	25%	178 / 726	24%	3,503 / 14,389
Architecture	24%	174 / 726	0%	0 / 14,389
Integration	20%	148 / 726	21%	3,058 / 14,389
Data Analysis	18%	130 / 726	5%	722 / 14,389
Presentations	17%	123 / 726	3%	464 / 14,389
Problem Solving	17%	123 / 726	3%	497 / 14,389
Infrastructure	17%	121 / 726	9%	1,283 / 14,389
Project Management	14%	100 / 726	20%	2,871 / 14,389
Computer Sciences	13%	98 / 726	2%	270 / 14,389
Research	10%	73 / 726	11%	1,609 / 14,389
Microsoft Excel	10%	70 / 726	10%	1,440 / 14,389
Mentorship	9%	67 / 726	3%	387 / 14,389
Troubleshooting (Problem Solving)	9%	63 / 726	12%	1,675 / 14,389

Skill	Frequency in Job Postings	Postings with Skill / Total Postings (4/17 - 4/18)	Frequency in Workforce Profiles	Profiles with Skill / Total Profiles (2018 - 2018)
Time Management	8%	61 / 726	2%	326 / 14,389
Written Communication	8%	60 / 726	0%	37 / 14,389
Coordinating	8%	56 / 726	3%	442 / 14,389
Governance	8%	56 / 726	2%	248 / 14,389
Microsoft PowerPoint	8%	56 / 726	7%	953 / 14,389
Application Development	7%	53 / 726	4%	550 / 14,389
Interpersonal Skills	7%	51 / 726	0%	55 / 14,389
Creativity	6%	44 / 726	0%	0 / 14,389
Driving	6%	43 / 726	1%	83 / 14,389
Microsoft Office	6%	43 / 726	16%	2,269 / 14,389
Microsoft Windows	5%	36 / 726	17%	2,473 / 14,389
Verbal Communication Skills	5%	35 / 726	0%	11 / 14,389
Decision Making	5%	33 / 726	1%	92 / 14,389
Prioritization	5%	33 / 726	0%	69 / 14,389
Business Administration	4%	27 / 726	1%	164 / 14,389
Microsoft Outlook	3%	25 / 726	3%	488 / 14,389
Quality Assurance	3%	25 / 726	5%	655 / 14,389
Office Suite	3%	24 / 726	2%	242 / 14,389
Persuasive Communication	3%	20 / 726	0%	15 / 14,389
Android (Operating System)	2%	18 / 726	3%	500 / 14,389
Apple iOS	2%	18 / 726	3%	476 / 14,389
Data/Record Logging	2%	17 / 726	1%	155 / 14,389
Critical Thinking	2%	16 / 726	1%	87 / 14,389
Sales	2%	15 / 726	12%	1,766 / 14,389
Business Acumen	2%	14 / 726	0%	19 / 14,389
Interpersonal Communications	2%	13 / 726	0%	10 / 14,389
Customer Service	2%	12 / 726	13%	1,859 / 14,389
Negotiation	2%	12 / 726	3%	387 / 14,389
Program Management	2%	12 / 726	11%	1,547 / 14,389
Listening	2%	11 / 726	0%	39 / 14,389
Training And Development	2%	11 / 726	1%	187 / 14,389
Writing	1%	10 / 726	5%	727 / 14,389

## Top Qualifications

Qualification	Postings with Qualification
Certified Information Systems Security Professional	25
Certified Information Security Manager	13
Cisco Certified Network Associate	9
Cisco Certified Network Professional	9
Certified Ethical Hacker	8
GIAC Certified Intrusion Analyst	6
Cisco Certified Internetwork Expert	5
Global Information Assurance Certification	5
Certified Project Management Professional	4
GIAC Certified Forensics Analyst	4
GIAC Certified Incident Handler	4
Offensive Security Certified Professional	4
PMI Certified	4
Cisco Certified Design Associate	3
Cisco Certified Design Professional	3
Certified In Risk And Information Systems Control	2
Certified Wireless Analysis Professional	2
GIAC Security Essentials Certification	2
Information Systems Security Architecture Professional	2
Project Management Professional Certification	2
CompTIA Security+	2
Certified Technology Specialist	1
Cisco Certified Entry Networking Technician	1
Cisco Certified Internetwork Professional	1
CompTIA Advanced Security Practitioner	1
Juniper Networks Certified Internet Associate	1
Juniper Networks Certified Internet Specialist	1
Licensed Professional Engineer	1
Microsoft Certified Professional Developer	1
Microsoft Certified Solution Developer (MCSD)	1
Microsoft Certified Technology Specialist	1
Professional Engineer	1
Qualified Security Assessor	1
Systems Security Certified Practitioner	1

# Appendix A - Data Sources and Calculations

## Emsi Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

## State Data Sources

This report uses state data from the following agencies: Florida Department of Economic Opportunity

**E Valencia Service Area Employer Letter of Support: Joe Cosmano, SVP Engineering Services, iBoss**



June 4, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

iBoss enthusiastically supports Valencia College in its pursuit of offering a baccalaureate degree in Software Development. iBoss has current job openings in Boston, Orlando, and London for Software Engineers (C/C++/Java), Front End Developers, DevOps Engineers, Product Managers, Technical Support Engineers, and Technical Implementation Managers.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the cybersecurity industry and our workforce needs including in Orange County, Florida and surrounding areas. We are continuously in need of highly qualified and talented managers and individual contributors at and beyond a baccalaureate level; in particular in the areas listed above. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

Joe Cosmano | Senior Vice President, Engineering Services



Phone: +1.858.568.7051 ext # 7860  
[joe.cosmano@iboss.com](mailto:joe.cosmano@iboss.com)  
[www.iboss.com](http://www.iboss.com)

**F Valencia Service Area Employer Letter of Support:**  
Andrew Kozlik, Engineering Manager, Unikey Technologies

March 29, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

UniKey Technologies Inc. enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. UniKey is a leader of the mobile credential industry and has constant need for embedded, web, and mobile software engineers.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the access control industry and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented managers at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

Andrew Kozlik  
UniKey Technologies, Inc  
akozlik@unikey.com

**G Valencia Service Area Employer Letter of Support:**  
Christopher Maitland, Technical Solutions Engineer, Sprint

June 13, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

I write to you in support of Valencia College in its pursuit of offering a baccalaureate degree in Software Development. My team at Sprint is always pursuing candidates with software development and programming experience. We struggle to find recent graduates with the necessary hands on experience and knowledge to quickly adapt and contribute to our team.

Valencia College has a long-standing record of providing excellent education, training, and resources that positively affects and improves the Telecommunications and IT field. We are continuously in need of highly qualified graduates at a baccalaureate level. In particular, we need candidates with experience as software developers, app developers, and web developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor's degree, as it will prove an ideal platform for providing highly skilled personnel.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally, instead of having to do national searches with contracting companies and head hunters.

Best Regards,

Christopher Maitland

Technical Solutions Engineer

Sprint – Network Operations Solutions

[christopher.maitland@sprint.com](mailto:christopher.maitland@sprint.com)

**H Valencia Service Area Employer Letter of Support:**

James McQuiggan, Chapter President, Letter of Support

International Information Systems Security Certification Consortium, Inc. (ISC<sup>2</sup>)

James R. McQuiggan, CISSP  
Chapter President  
Central Florida (ISC)<sup>2</sup> Chapter

June 13, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

The Central Florida (ISC)<sup>2</sup> Chapter enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the education and training of cyber security professionals and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented managers at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

*James R. McQuiggan*

James McQuiggan

Chapter President

Central Florida (ISC)<sup>2</sup> Chapter

president@isc2chapter-centralflorida.org

I **Valencia Service Area Employer Letter of Support:**

Paula Stenzler, Senior Director Engineering & Safety Services, Universal Creative,  
Universal Parks and Resorts



May 21, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, Fl. 32835

Dear Dr. Shugart:

Universal Creative enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. Universal Creative is in need of Controls/Automation Engineers to include software for Ride Controls Systems to include Programmable Logic Controllers (PLCs) and Human Machine Interfaces. Also, industrial system modeling to advance software test and validation in advance of having actual hardware. Additionally, virtualization and VR/AR Software Engineers to integrate creative/theme intent into VR/AR applications to enhance quest attraction experience.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the Entertainment and Technology and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented individuals at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

A handwritten signature in blue ink that reads "Paula Stenzler, D. Eng.".

Paula Stenzler, D. Eng.  
Sr. Director, Engineering & Safety  
Universal Creative  
Paula.Stenzler@universlaorlando.com  
407-832-0476 (cell)

## **J Program Development Process - Relevant to the BAS Software Development**

*Valencia College has a robust and comprehensive program development process that consists of three distinct phases. Each year the Office of Career and Workforce Education conducts an economic gap analysis using the data from Florida DEO, Economic Development Strategic Plan, and other resources to determine the workforce demand and unmet need for Valencia's service area. The purpose of the research is to determine the workforce gap(s) and identify potential programs Valencia can offer to fill them. In January 2018, the college leadership approved the pursuance of the Bachelor of Applied Science in Software Development (BAS-SD).*

*The outline that follows is information standard to the Valencia Planning Process. Items that have been bolded are specific responses for the BAS-SD program.*

### **Phase 1- Exploration Process**

- 1.0 Campus presidents and academic deans to review EMSI occupational report for a program of interest. CWE provided the related workforce data for review. **June 2017, Dr. Carin Gordon expressed interest for the BAS-SD program***
- 2.0 Campus presidents explore potential new programs during fall enrollment planning using labor market data (Data provided by Office of Career and Workforce Education (CWE). **The BAS in Software Development (BAS-SD) identified as a potential program for further research.***
- 3.0 Form design & development teams (DDT) for programs of interest. **Complete***

### **Phase 2.0 – Research Process**

- 1.0 The CWE office working with deans and faculty developed a plan and timeline to explore the program development process and the offering of the potential new program(s). **April 2018, the timeline for the BAS-SD degree was developed.***
- 2.0 Plan to contact Institutions offering similar program and for potential articulation opportunities. **Complete***
- 3.0 Connect with area employers regarding the workforce need. **Ongoing***
- 4.0 Review accreditation/licensure/certification requirements. **Complete***
- 5.0 Project program enrollment/graduates/completers. **Complete, May 2018***
- 6.0 Project potential budget & resource needs. **Complete, May 2018***

### **Phase 3 – Design and Development Process**

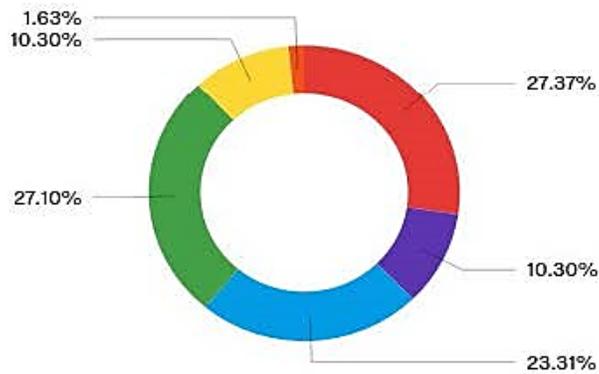
- 1.0 Review documentation required for accreditation (SACSCOC & other accreditation, licensure/certification). **Will be submitted to SACSCOC post-State DOE approval***
- 2.0 Develop the timeline for FLDOE baccalaureate process (APPRiSe, Notice of Intent, proposal application, and FLDOE board approval). **Complete***
- 3.0 Review and visit other institutions offering the program. **Complete***
- 4.0 Business & industry involvement and partners – **Upon the program approval, the current Joint AS Degree Information Technology Advisory Council will be reorganized to reflect the bachelor degree as well as increase the membership.***
- 5.0 Prepare and submit budget & resource needs plan. **Complete, August 2018***
- 6.0 Develop curriculum for program and course(s). **Complete, June 2018***
- 7.0 Develop potential articulation agreement. **Ongoing***
- 8.0 Prepare marketing and communication plan (Office of Marketing & Communications, Office of College Transitions, The Grove, Web Services, etc.) Includes, notifying potential employers of impact, and information sessions for students. **Developed; to be implemented upon the approval of the program***

**K Valencia College Student survey and results**

# Default Report

*Bachelor of Applied Science in Computing Technology-Software Development*  
 November 13th 2017, 2:59 pm EST

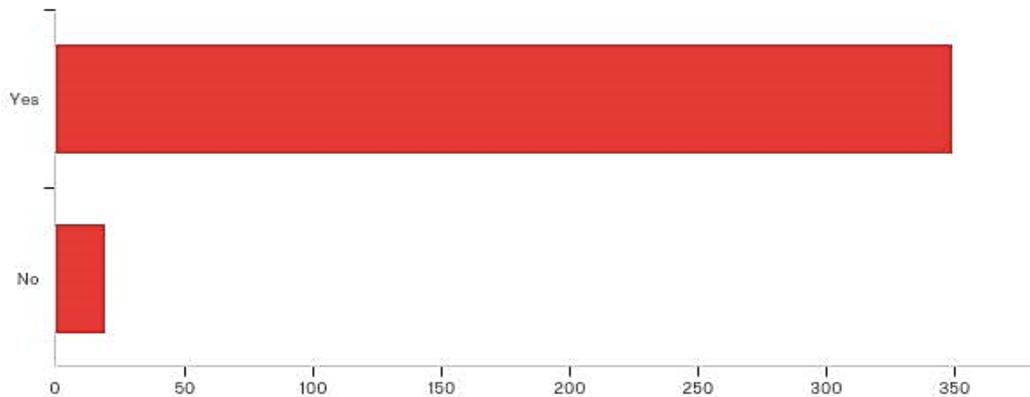
**Q1 - Please identify the degree program you're pursuing at Valencia College.**



- Associate in Arts(AA) Degree Articulated Computer Science
- Associate in Arts (AA) Degree Articulated Information Technology
- Associate in Science (A.S.) Degree Computer Information Technology
- Associate in Science (A.S.) Degree Computer Programming and Analysis
- Associate in Science (A.S.) Degree Network Engineering Technology
- Non Degree seeking to "Others"

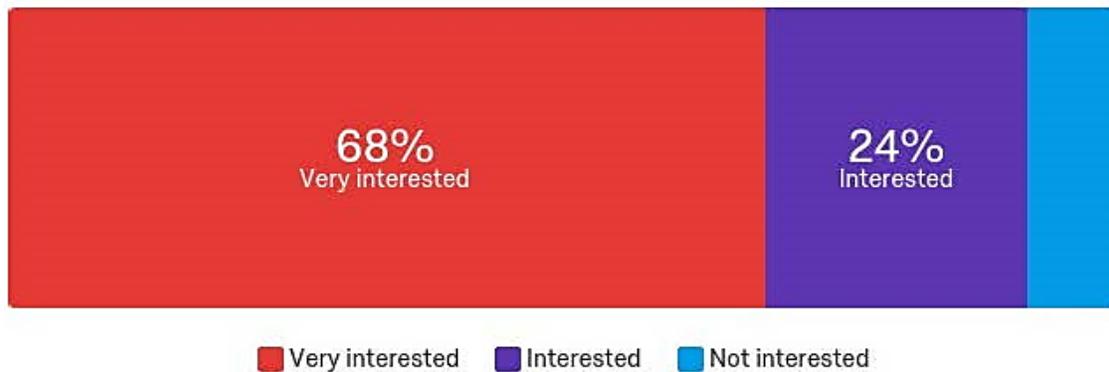
#	Answer	%	Count
1	Associate in Arts(AA) Degree Articulated Computer Science	27.37%	101
6	Associate in Arts (AA) Degree Articulated Information Technology	10.30%	38
2	Associate in Science (A.S.) Degree Computer Information Technology	23.31%	86
3	Associate in Science (A.S.) Degree Computer Programming and Analysis	27.10%	100
4	Associate in Science (A.S.) Degree Network Engineering Technology	10.30%	38
5	Non Degree seeking to "Others"	1.63%	6
	Total	100%	369

**Q2 - Do you plan to pursue a bachelor degree after you graduate from Valencia?**



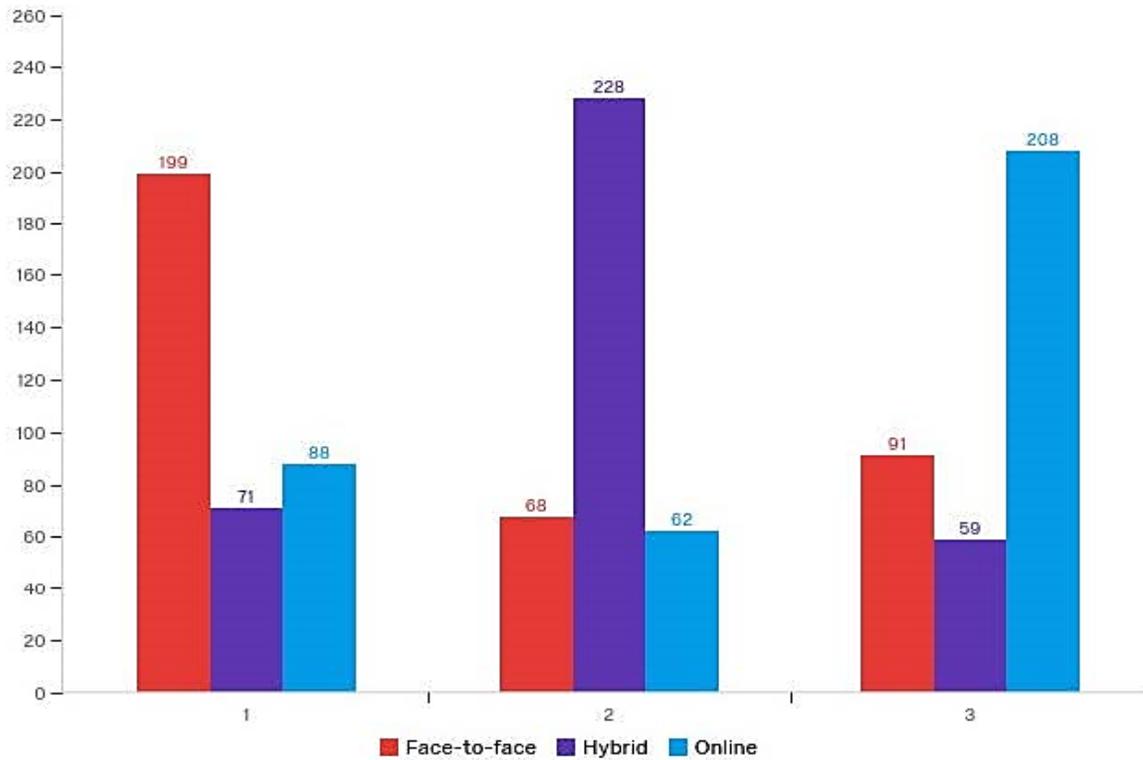
#	Answer	%	Count
1	Yes	94.84%	349
2	No	5.16%	19
	Total	100%	368

**Q3 -UCF has suspended their Bachelor of Applied Science degree.If Valencia College offered a bachelor degree in a software development field, would you be interested in studying for that degree at**



#	Answer	%	Count
1	Very interested	68.12%	235
2	Interested	23.77%	82
3	Not interested	8.12%	28
	Total	100%	345

**Q4 - What modality do you prefer the courses to be offered? (Please drag & drop to rank them in preferred order )**



#	Question	1	2	3	Total			
1	Face-to-face	55.59%	199	18.99%	68	25.42%	91	358
2	Hybrid	19.83%	71	63.69%	228	16.48%	59	358
3	Online	24.58%	88	17.32%	62	58.10%	208	358

## L 1) City of Orlando Smart Cities Announcement

# City of Orlando Selected to be Part of 2017 Smart Cities Council Readiness Challenge

Posted date: February 08, 2017

### City of Orlando Selected to be Part of 2017 Smart Cities Council [Readiness Challenge](#)

ORLANDO, FL – February 8, 2017 – Today the Smart Cities Council, the world’s largest smart cities network, announced that Orlando is one of five cities they will partner with as part of the 2017 Smart Cities Council Readiness Challenge.

Orlando was selected because of its commitment to utilizing smart technologies to advance livability, workability, sustainability and resilience in the City. As part of the challenge, the City will receive tailored guidance on further developing and implementing a comprehensive approach to apply smart technologies to continue to expand innovation, inclusion and investment in Orlando.

“The City of Orlando is excited about this opportunity to work together with the Smart Cities Council and our Central Florida community to build out a unique program that will further improve the lives of our residents and visitors,” said Orlando Mayor Buddy Dyer. “Through access to international industry experts, new data and communication technologies, participating in the challenge will continue to ensure Orlando is a more intelligent, interconnected and efficient City.”

Through the challenge, the Council will build and host a Readiness Program Workshop geared to enhancing Orlando’s specific priorities. Additionally, the Readiness Program will provide significant in-kind contributions from professional services; as well as access to best practices from some of the world’s top smart city practitioners, peer cities and technology providers with expertise in leading smart cities.

Opportunities through the challenge also include the possible deployment of new, cutting-edge technologies in Orlando, making the City an international destination to showcase smart city initiatives and practices.

Through the challenge, the City of Orlando will also partner with Orange County Government, MetroPlan Orlando, East Central Florida Regional Planning Council and Siemens.

The other cities selected for the challenge include Austin, Indianapolis, Miami and Philadelphia.

###

**About the Smart Cities Council:** Launched in 2012, the Smart Cities Council is the author of the internationally recognized Smart Cities Readiness Guide, which provides guiding principles and best practices for an integrated, cross-cutting smart city. With regional councils in North America, Europe, India and Australia/New Zealand, the Council is comprised of more than 120 partners and advisors who generate \$2.7 trillion in annual revenue and who have worked on more than 10,000 smart city projects past and present. To learn more, visit [www.smartcitiescouncil.com](http://www.smartcitiescouncil.com).

#### Media Contact:

Cassandra Anne Lafser  
Press Secretary  
City of Orlando  
[Cassandra.Lafser@cityoforlando.net](mailto:Cassandra.Lafser@cityoforlando.net)  
407-246-2182

Sarah Blanchard  
Director of City Engagement  
Smart Cities Council  
[Sarah.Blanchard@SmartCitiesCouncil.com](mailto:Sarah.Blanchard@SmartCitiesCouncil.com)  
301-798-3230

**L 2) Valencia Service Area Employer Letter of Support:**  
Chris Castro, Director of Sustainability, City of Orlando



July 6, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

City of Orlando enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the local government sector and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented individuals at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program to support our Technology Management department and the growing Smart Cities initiative.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

A handwritten signature in black ink that reads "Chris Castro".

Chris Castro, LEED GA, CPB  
Director of Sustainability, Co-chair of Smart Cities Initiative  
Mayor Dyer's Office of Sustainability  
City of Orlando  
400 South Orange Avenue  
Orlando, FL 32801  
P: (407)-246-3463

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**OFFICE OF SUSTAINABILITY | GREEN WORKS ORLANDO**  
Orlando City Hall · 400 South Orange Avenue · 8th Floor  
PO Box 4990 · Orlando, FL 32802-4990  
P 407.246.2781 · cityoforlando.net/greenworks

**M April 25, 2018, Valencia College Board of Trustees Meeting...**

Valencia College Board of Trustees Minutes, Unanimous approval to offer  
Bachelor of Applied Science in Software Development (see highlighted section on p. 3 of minutes)



**THE DISTRICT BOARD OF TRUSTEES  
OF VALENCIA COLLEGE  
REGULAR MEETING**

**Minutes**

**April 25, 2018**

Valencia College – Winter Park Campus, Room 225-226

Members Present

Dr. Bruce Carlson, Chair  
Ms. Maria Grulich  
Ms. Daisy Lopez-Cid  
Mr. Raymer F. Maguire, III  
Mr. Guillermo Hansen  
Ms. Rosene Johnson  
Ms. Tracey Stockwell

Dr. Sanford C. Shugart, Secretary of the Board and President of the College

Members Absent

Mr. Lewis M. Oliver, III

<b>Call to Order</b>	Chair Carlson called the Regular Meeting of the District Board of Trustees of Valencia College to order at 9:32am. A quorum was present.
<b>Invocation</b>	The invocation was offered by Mr. James Galbraith, Vice President for Public Affairs and Marketing.
<b>Pledge of Alliance</b>	The Pledge of Allegiance was recited by all.
<b>Approval of Minutes February 28, 2018 Regular Meeting</b>	Ms. Stockwell moved to approve the meeting minutes of the February 28, 2018 Regular Meeting, as presented. The motion was seconded by Ms. Lopez-Cid and approved unanimously.
<b>President's Report</b>	Dr. Shugart recognized and thanked former Trustee John Crossman, who was in attendance at the meeting.

Dr. Mullaney, Vice President for Policy and General Counsel, and Mr. Galbraith presented the 2018 Legislative Session report, which was distributed to the Board. The report included the session highlights, bills of note that passed, and bills of note that did not pass. Mr. Galbraith shared that the legislatively approved state budget for 2018-2019 included an operating budget gain of approximately \$750,000 for Valencia. Mr. Galbraith thanked the Board for their great efforts and engagement in Tallahassee.

Dr. Shugart reported that the Center in Technology (CIT) and the Center for Accelerated Training (CAT) Buildings Celebration event, held Tuesday, April 24, 2018, at Osceola Campus, was a great success.

Dr. Shugart announced that Dr. Falecia Williams, West and Downtown Campuses President, completed the 2017-2018 Aspen Presidential Fellowship for Community College Excellence.

Dr. Shugart praised Ms. Carol Traynor, Director, Public Relations, and Ms. Linda Beaty, Assistant Director, Public Relations, for their outstanding work.

Dr. Shugart recognized Mr. Jessie Ehrenberg, Catering Specialist, Valencia Food Services vendor, Valley Foods, for his outstanding work over the last thirteen years. Mr. Ehrenberg is pursuing a degree at Valencia College.

Dr. Shugart recognized Dr. Maryke Lee, Dean, Mathematics, East Campus, for forty years of dedication and service to the College. Dr. Lee will be retiring Tuesday, July 31, 2018.

Dr. Shugart reminded the Board that the Valencia Commencement Ceremonies will be held Sunday, May 6, 2018, 10am and 2pm, at the UCF Arena.

Dr. Shugart reported that the Valencia School of Public Safety Summit, held Friday, April 13, 2018, was a great success. During the summit, Central Florida business leaders discussed the importance of public safety, and the effectiveness of cross-jurisdiction collaboration, calling for increased opportunities for Central Florida organizations to work together to protect and serve our community.

**Faculty Council  
Report**

Mr. Al Groccia, Faculty Association President, presented the report, which was distributed to the Board. Mr. Groccia reported that Valencia's faculty has placed a strong focus on safety this year. He shared current safety practices with the Board. Mr. Groccia announced that his term as President of the Faculty Association will end in June 2018, and that Mr. John Niss, Professor, Mathematics, Winter Park Campus, will assume the role through June 2019.

**Public Comments**

No public comments were offered.

**New Business**

- 1. Careers in Industry and Technology Building (CIT) (3<sup>rd</sup> Floor):** Following discussion led by Mr. Loren Bender, Vice President, Business Operations and Finance, Ms. Grulich moved to approve an additional \$175,000 in architectural design fees for the Careers in Industry and Technology Building, in furtherance of providing leased space for Career Source of Central Florida. Ms. Lopez-Cid seconded. The motion was approved unanimously.
- 2. Approval of 2017-2018 Annual Fire Safety Casualty Safety and Sanitation Inspection:** The report was distributed to the Board. Mr. Bender reported that no deficiencies were noted in the inspection of all College buildings. Following discussion, Ms. Grulich moved to approve the 2017-2018 State Requirements for Educational Facilities Report, as presented, and Ms. Johnson seconded. The motion was approved unanimously. Mr. Bender praised Ms. Mona Liza Colon, Compliance Inspector, and her team, for their outstanding work.

- 3. Approval of New Degree Program: Bachelor of Applied Science in Software Development:** Following full discussion led by Dr. Stacey Johnson, Winter Park and East Campuses President, and Dr. Carin Gordon, Dean, Business, Information Technology and Public Services, East Campus, Mr. Maguire moved to approve Valencia College's intent to offer a program of study leading to a Bachelor of Applied Science in Software Development, and further to authorize the College to develop relevant curriculum, to submit appropriate documentation with respect to this new academic program to the State Board of Education for its approval, to submit appropriate documentation with respect to this new academic program to the Southern Association of Schools and Colleges for its approval, and to offer the Bachelor's of Applied Science in Software Development. Ms. Grulich seconded. The motion was approved unanimously.

**From p. 7, April 25, 2018**

A motion was made by Ms. Lopez-Cid and seconded by Ms. Grulich to consider, accept, and approve items 4, 5, 6, 7, 8, and 9 under New Business in the manner of a consent agenda. The Board unanimously approved the following items of New Business in the consent agenda, as recommended:

- 4. 2017-2018 Annual Equity Update**
- 5. Human Resources Agenda**
- 6. Additions, Deletions or Modifications of Courses and Programs**
- 7. Continuing Education Courses & Fees**
- 8. Submission of Grant Proposals**
- 9. Property Deletions**

**Reports**

- A. Winter Park Campus Report:** Dr. Terri Daniels, Executive Dean, Winter Park Campus, presented the report, which was distributed to the Board. Dr. Daniels briefed the Board on the town of Eatonville demographics, and discussed education attainment levels comparisons between Eatonville, Winter Park, Maitland, and Orlando. She also discussed strategic initiatives in high school transition and Orange Technical College, program expansions, community outreach, and other events. Dr. Johnson announced that the Valencia's Brain Bowl team has won its eighth national championship.
- B. Winter Park SGA Report:** Mr. Adrian Fossaceca, Winter Park Campus SGA President, presented the report, which was distributed to the Board. Mr. Fossaceca briefed the Board on the SGA's purpose to represent, advocate, inform, serve, and enrich the Valencia student community.
- C. Audit Reports:** Mr. Bender presented the report, which was distributed to the Board. Mr. Bender briefed the Board on the State Auditor's findings, the recommendations that were presented to the College, the response from the College, and the report that was published. Mr. Bender praised Ms. Jackie Taseh, Assistant Vice President, Financial Services, for her outstanding work.
- D. Financial Report:** Mr. Bender presented the report, which was distributed to the Board. Mr. Bender indicated that the College's financial indicators are positive and on target.
- E. Construction Report:** Mr. Bender presented the report, which was distributed to the Board. Mr. Bender reported positively on the construction progress at the East Campus, building 113 interior renovation, the Osceola Campus Center for Accelerated Training (CAT), and Careers in Industry and Technology (CIIT) buildings, and the Downtown Campus.
- F. Valencia Foundation Report:** Ms. Lopez-Cid presented the report, which was distributed to the Board. Ms. Lopez-Cid reported that the College Foundation reports net assets of \$103 million, as of Feb 28, 2018.

**Board Comments**

Mr. Hansen reported on the Worlds of Pride: Living my History event, to be held at the Osceola County Welcome Center and History Museum, April 25, 2018, 5:30pm and 7:30pm. The event will reach new audiences and will capture history through a six-person Hispanic Heritage Oral History Project.

**Adjournment**

Chair Carlson adjourned the Regular Meeting at 11:33am.

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Chair

**N April 25, 2018, Valencia College Board of Trustees Meeting...Presentation**

Dr. Stacey Johnson, *East and Winter Park Campus President*, Dr. Carin Gordon, *Dean of Business, Information Technology & Public Service, East Campus*; Dr. Lisa Macon, *Dean of Engineering, Computer Programming & Technology*

Valencia College Board of Trustees  
Presentation on BAS Software Development

April 25, 2018



**BACHELOR OF APPLIED SCIENCE  
IN  
SOFTWARE DEVELOPMENT**

April 25, 2018



**B.A.S. in SOFTWARE DEVELOPMENT**

- 2+2 program consisting of 120 college credits
- Pathway for A.S. and A.A. degree completers
- \$10,000 bachelor degree at Valencia
- Strong business partnerships and support

VALENCIA COLLEGE

## PROGRAM DESCRIPTION

Prepares 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.

VALENCIA COLLEGE

## WHY WE NEED THE B.A.S.

- Strong workforce demand (DEO-LMI Data)
- Unmet Employment Gap
- No Florida public institution in Region 12 offers bachelors in Software Development
- Strong student interest (survey)
- UCF sunset its B.A.S. in Software Development track

VALENCIA COLLEGE

### ORANGE/OSCEOLA PROJECTED WORKFORCE DATA (2017-25)

- **Total Job Openings (Demand):**  
10,088 (8 yrs.) 1,261 per year (Orange/Osceola)  
13,200 (8 yrs.) 1,650 per year (Region 12)
- **2016-17 Total Graduates (Supply):**  
Valencia: 294  
(Valencia AS & AA graduates in Programming, CIT, Network  
Engineering & Articulated IT & AA pre-majors)  
UCF: 184  
ICLUF: 12  
(B.A.S. Software Development)
- **Workforce Gap (Unmet Need):**  
8,616 (8 yrs.) 1,065 Per year

VALENCIA COLLEGE

### SOFTWARE DEVELOPMENT JOBS

- Software Developers, Applications
- Software Developers, Systems Software
- Computer Network Architects
- Computer Systems Analyst
- Information Security Analyst
- Computer and Information Systems  
Managers

**VALENCIA COLLEGE**

### **STUDENT INTEREST IN B.A.S.**

369 CIT/NET & CPA Students Responded

Do you plan to pursue a bachelor degree?  
Yes 95%

Would you be interested in studying for that degree at Valencia?  
Very Interested: 68%  
Interested: 24%

**VALENCIA COLLEGE**

### **AREA EDUCATIONAL INSTITUTIONS SUPPORT THE B.A.S.**

Direct Connect Consortium Members

- University of Central Florida
- Daytona State College
- Eastern Florida State College
- Lake Sumter State College
- Seminole State College

VALENCIA COLLEGE

### ADVISORY COMMITTEE & EMPLOYER FEEDBACK

- Strong Support for B.A.S. from:
  - Valencia's joint IT/NET Advisory Committee
  - Several IT business members of CEO Leadership Forums, per Geoff Gallo, Co-Chair of the CEO Leadership Forums

VALENCIA COLLEGE

### THE \$10,000 B.A.S. DEGREE

A.S. program (60 Cr.)	B.A.S. program (60 Cr.)	Tuition
15 Cr. (dual enrollment, AP, and/or articulated credits)		\$0
45 hours including 18 Cr. of G.E.		\$4,697.70
	24 cr. of lower level courses including 18 cr. of G.E.	\$2,478.44
	36 credit hours of upper level courses	\$4,038.84
	Scholarships if eligible (11 Cr.)	(\$1,244.09)
	<b>Total Student tuition cost</b>	<b>\$9,915.89</b>

VALENCIA COLLEGE

## DESIGN PRINCIPLES

- Collaborative effort
- Utilize Open Educational Resources
- Provide a common navigation/format
- Utilize B.A.S. Business & Organizational Leadership for certain core courses & electives
- Follow the B.A.S. model established at UCF through the NSF Grant development

VALENCIA COLLEGE

## QUESTIONS?

O Valencia College Curriculum Approval – June 13, 2018 Meeting Minutes

COLLEGE CURRICULUM COMMITTEE

June 13, 2018

**Minutes**

**Members Present:** Joan Alexander, Beverly Bond, Sandra Bowling, Ana Caldero Figueroa, Amy Comerford, Esther Coombs, Daniel Diehl, Yolanda Gonzalez, Lisa Lippitt, Adrienne Mathews, John Niss, Julia Ribley, Cheryl Robinson, Regina Seguin, Ravi Varma

**Alternates Present:** Nardia Cumberbatch, Jerry Reed

**Ex-Officio Present:** Daniel Barkowitz, Pedro Gonzalez, Nasser Hedayat, Linda Herlocker, Ed Holmes, Darnell Purcell, Pat Sebastian

**Visitors Present:** Dave Brunick,

**Staff Present:** Krissy Brissett (Recording), Glenn Ricci

1. **Welcome to Committee Members and Visitors**

*Karen Borglum opened the meeting with a welcome.*

2. **Review of Minutes May 9, 2018**

( <http://valenciacollege.edu/curriculumcommittee/Minutes.cfm> )

*The minutes were approved by consensus.*

3. **Consent Agenda** – Course modifications or deletions involving minor editing of course descriptions or level changes which do not impact other departments are eligible for placement on the consent agenda. Any members of the committee may request to remove a proposal from the consent agenda for the purpose of discussion.

**a) The following course(s) have outlines in Course Information Management that may be viewed in ATLAS:**

CEN 3024C, CEN 4025C, CEN 4333C, CEN 4350C, CEN 4360C, CEN 4370C, CEN 4390,  
CEN 4802C, CEN 4910C  
COP 3330C  
ETI 4448C

**b) The following outlines are being presented as part of the Two-Year Program Review Cycle:**

CHM 1020, CHM 2210C  
MAN 2021

c) **Lab Fees:**

**Various Courses Lab Fee Reversions, CCM.....Karen Borglum**

**Purpose:** To return required lab fees to their previous amounts; **Effective date:** Fall 2018 (201910).

*The consent agenda was approved by consensus.*

4. **Regular Agenda**

**1718-238 CEN 3024C Software Development I, CCA.....Lisa Macon**

**Purpose:** This is a required course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1;

**Prerequisites:** Minimum grade of C in either COP 3330C or COP 2805C; **Co-requisites:**

None; **Catalog Course Description:** Software development concepts are introduced in the context of hands-on project implementation. SDLC, version control, design with UML, documentation, testing, 2&3-tier architecture; **Effective Date:** Fall 2019 (202010).

*Jerry Reed explained that many of their AS students were transferring to UCF to complete their Software degree. UCF decided to discontinue their BAS degrees and with 1200 students enrolled they saw a gap where Valencia's students could benefit. He explained that they were inspired by the late Colin Archibold who was motivated to see a program like this go forward at Valencia. Karen wondered why the prerequisites were either COP 3330C or COP 2805C since students have to take COP 3330C. Nasser and others thought it was that they would be able to give a substitution if students come in with the 2805C course. Julia wondered if they could make the courses an either/or listing in the program. Karen agrees, but she wasn't sure if they had to meet a minimum amount of 3000 or 4000 level courses. Nasser believes that they will have to do some more clean-up of the program and bring it forward with additional changes before the program start date.*

*Proposal 1718-238 was approved by consensus.*

**1718-239 CEN 4025C Software Development II, CCA.....Lisa Macon**

**Purpose:** This is a required course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1;

**Prerequisites:** Minimum grade of C in CEN 3024C; **Co-requisites:** None; **Catalog Course**

**Description:** A continuation of Software Development I with larger and more complex projects. Enterprise-level applications are covered including distributed, and web-based systems using n-tier architecture; **Effective Date:** Fall 2019 (202010).

*The prerequisite was changed to: Minimum grade of C in CEN 3024C*

*Proposal 1718-239 was approved with the above change.*

**1718-240 CEN 4333C Advanced Database Development, CCA.....Lisa Macon**

**Purpose:** This is a required course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1;

**Prerequisites:** Minimum grade of C in CGS 2545; **Co-requisites:** None; **Catalog Course**

**Description:** Professional-level database access from object-oriented systems, including complex SQL queries and stored procedures. Use of object-relational frameworks. Use of NOSQL databases and Hands-on exercises with current RDBMS software; **Effective Date:** Fall 2019 (202010).

*This course is a continuation of CGS 2545 and there was a discussion regarding the removal of the course as a prerequisite. It was decided that it would be approved with the understanding that they will discuss it and bring the course back later if they want to keep it as a prerequisite.*

*The prerequisite was changed to: None*

*Proposal 1718-240 was approved with the above change.*

**1718-241 CEN 4350C Open Source Web Technologies, CCA.....Lisa Macon**

**Purpose:** Elective course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:**

Minimum grade of C in either COP 2805C or COP 3330C; **Co-requisites:** None; **Catalog**

**Course Description:** Web application development using currently popular open-source/open-standard tool. User-interface, the business layer, database, and deploying to the web-server. Students will install and configure the web server, using the current version of the Apache, running on a Linux machine. A significant part of this course will be learning PHP, MySQL, and JavaScript (Open Standard). Students will survey other open source tools including Drupal, Mambo, TYPO3, Ruby on Rails, and if there is time and interest, Movable Type, WordPress, and TextPattern. Some specific types of websites will be explored, including Ecommerce sites, and sites that specialize in training; **Effective Date:** Fall 2019 (202010).

*John Niss advised against being very specific rather than more general so they do not have to bring the course back later on. Cheryl Robinson was concerned about the statement regarding time and interest. It was agreed that it would be removed.*

*Proposal 1718-241 was approved by consensus.*

**1718-242 CEN 4360C Mobile Device Software Dev., CCA.....Lisa Macon**

**Purpose:** Elective course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** COP 2805C or COP 3330C; **Co-requisites:** None; **Catalog Course Description:** Concepts and practice of software development for mobile devices. User Interface, data persistence, data communication, use of API's for sound, mapping, GPS, sensors, etc. This is a professional-level course. Students are expected to demonstrate use of several SDKs, build and deploy an application that is of significant scope. Monetizing applications is also discussed. An Android/iOS device is not required for this class, but students are encouraged to create and test applications on actual hardware; **Effective Date:** Fall 2019 (202010).

*Regino Seguin wondered what would happen if a student did not have a device as listed in the course description. The faculty members explained that they have tablets in the classroom for the students to practice. There was a discussion about the wording in the course description as the sentences in the description seem to be fragments.*

*The prerequisite was changed to: Minimum grade of C in COP 2805C or COP 3330C*

*Proposal 1718-242 was approved with the above change.*

**1718-243**    CEN 4370C    .NET Software Development using C#, CCA.....L. Macon

**Purpose:** Elective course in the proposed Bachelor of Applied Science in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** Minimum grade of C in COP 3330C; **Co-requisites:** None; **Catalog Course Description:** .NET Windows and Web application development. Use of the .NET Framework class library. N-tier architecture. User interface, collections, database connectivity, and deployment; **Effective Date:** Fall 2019 (202010).

*Ravi wondered why they only listed COP 3330C as a prerequisite and not the 2805 course as well. Nasser believes it should be added and Jerry will discuss it with the other faculty.*

*The prerequisite was changed to: Minimum grade of C in COP 3330C or COP 2805C*

*Proposal 1718-243 was approved with the above change.*

**1718-244**    CEN 4930C    Seminar in Advanced Software Dev., CCA.....L. Macon

**Purpose:** Required advanced course for proposed BAS in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** Minimum grade of C in CEN 4025C; **Co-requisites:** None; **Catalog Course Description:** This course is focused on topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester; **Effective Date:** Fall 2019 (202010).

*Karen wondered why they wanted this number as the course sounds like a Special Topics course based on the description. The course was approved as CEN 4930C by the SCNS. Committee members were concerned as courses with a 930 number can only be taught for two semesters before they have to request a permanent number. That does not seem to be the intention for this course and they will work on a different description and outcomes so that a new number can be requested. The curriculum office will request 4390C once those changes are submitted and request a new century from the SCNS.*

*Proposal 1718-244 tentatively approved.*

**1718-245      CEN 4802C      Software Integration, Configuration, and Testing, CCA  
.....Lisa Macon**

**Purpose:** Required course for proposed BAS in Software Development and Applied Computing; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** Minimum grade of C in CEN 3024C; **Co-requisites:** None; **Catalog Course Description:** Addresses approaches and issues associated with integration of software subsystems and components into one system to ensure that the subsystems function together; **Effective Date:** Fall 2019 (202010).

*The prerequisite was changed to: Minimum grade of C in CEN 3024C*

*Proposal 1718-245 was approved with the above change.*

**1718-246      CEN 4910C      Software Dev. Project, CCA.....Lisa Macon**

**Purpose:** In support of new BAS in Software Development; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** Minimum grades of C in CEN 4025C and CEN 4802C; **Co-requisites:** None; **Catalog Course Description:** A software development project using the skills acquired from Software Development I & II. Working in teams, students develop a software system, simulating an industry experience; **Effective Date:** Fall 2019 (202010).

*The prerequisite was changed to: Minimum grades of C in CEN 4025C and CEN 4802C*

*Proposal 1718-246 was approved with the above change.*

**1718-247      COP 3330C      Object Oriented Programming, CCA.....Lisa Macon**

**Purpose:** Required course in proposed Bachelor of Applied Science in Software Development program; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** Minimum grade of C in COP 1000C or department approval; **Co-requisites:** None; **Catalog Course Description:** A hands-on course in object-oriented programming for students who have completed a course in programming concepts or have some other programming experience. Students will create object-oriented applications with an emphasis on correct object-oriented programming techniques and will become familiar with object-oriented design, including the creation of classes and methods and the use of existing classes and methods, Graphical User Interface, file input/output, collections, multi-

threaded applications, and database connectivity, and object oriented design and analysis using the Unified Modeling Language (UML); **Effective Date:** Fall 2019 (202010).

*Karen wondered if this course would be considered a hidden prerequisite as anything not listed in the program may not be eligible for financial aid. Daniel Barkowitz stated that anything listed as a prerequisite would be covered.*

*Proposal 1718-247 was approved by consensus.*

**1718-248 ETI 4448C Applied Project Management, CCA.....Lisa Macon**  
**Purpose:** Required course in proposed Bachelor of Applied Science in Software Development program; **Credit/Contact/Lab:** 3/3/1; **Prerequisites:** None; **Co-requisites:** None; **Catalog Course Description:** Statement of work, activity decisions, timelines, scheduling, and resource allocation methods. Techniques will be appropriate for large and small projects within commercial, academic, or non-profit organization; **Effective Date:** Fall 2019 (202010).

*Nasser wondered if the Curriculum office could request a CEN prefix for this course. The Curriculum office will request that change.*

*The prerequisite was changed to: Admission to the B.A.S. Software Development program.*

*Proposal 1718-248 was approved with the above changes.*

**1718-249 BAS: Software Development, CPA.....Lisa Macon**  
**Purpose:** The proposed BAS in SD was approved for development by Valencia's Board of Trustees in April 2018. The program is proposed to address the need for software development and software engineering professionals in Central Florida; **Effective Date:** Fall 2019 (202010).

*Karen explained that she identified where they listed their general education requirements, but didn't identify any specific general education courses. There was a discussion regarding if students with an AS degree would be double dipping. Karen thinks they left it generic to be flexible for students coming in with an AS and would need additional general education courses even though they may already have 60 hours.*

*Pat explained that they can only program the highest amount of credits that are required. There is no way for them to separate the programming for students that had a course prior versus students that haven't taken a course as yet.*

*Nasser stated that originally the BAS and AS to BS degrees were intended to give AS students a pathway. Currently, it does not matter what degree you have as the state*

says that as long as you have a 60 hour degree you have to be admitted into the bachelor program.

Karen explained that the larger question they are left with is can they get the 18 hours of general education be a part of the program as a graduation requirement or will they be admission requirements.

Daniel stated that if it's an admission requirement then financial aid will not cover it. Julia Ribley stated that if you add it into the program then the program will be more than 120 hours.

Karen stated that maybe they need to note the general education requirement on the overview tab. Also, they need to specifically list the courses required for students coming in with an AS versus an AA. There was a discussion about whether to separate the AS from the AA requirements like they did for the new Business degree. There was a discussion about the number of upper level credits that will be in the program and the big question that was left was how are those 18 hours going to be filled for AA students.

Karen thinks they can approve the program and come back later with more clarity on what the AS pathway looks like vs the AA pathway. She will redo the overview page and work with Daniel and Linda to ensure that Financial Aid will cover the program.

Proposal 1718-249 was approved by consensus.

**1718-250 A.S. Business Administration, CPM.....Nasser Hedayat**  
**Purpose:** To better advise students; **Effective Date:** Fall 2018 (201910).

Nasser explained that students completing the AS to BS track are routinely not being admitted and UCF has openly admitted to that. The faculty are now recommending removing the track to UCF that since we now have a business degree.

The effective date was changed to: Fall 2019 (202010)

Proposal 1718-250 was approved with the above change.

**1718-251 Course Substitutions: Foreign Language, CCM.....Karen Borglum**  
**Purpose:** Modify course listing; **Effective Date:** Fall 2018 (201910).

Cheryl pointed out that some of the course titles have changed and it was decided that HUM 2403, Middle Eastern Humanities and HUM 2454, African American Humanities be added to the list. Julia requested that ASL 2510 Deaf Culture also be included.

Proposal 1718-251 was approved with the above changes.

**1718-252 Course Substitutions: Mathematics, CCM.....Karen Borglum**  
**Purpose:** Modify course listing; **Effective Date:** Fall 2018 (201910).

*Proposal 1718-252 was approved by consensus.*

**5. Discussion Items**

*There are no Discussion Items for this month's agenda.*

**6. Information Items**

- **A.S. in Drafting and Design Tech, Drafting-AutoCAD TC, Drafting TC:** Replaced deleted courses: ETD 1320C and ETD 1100C with new courses ETD 1103C and BCN 1303C. The prerequisites for ETD 1701C and ETD 2614C were changed to reflect the new courses.

- **CUD-A Codes:**

**COM 2942** 11806 Communications - AP

**EET 1084C** 12601 Industrial - PSV

**ETI 1110, ETI 1420, ETI 1622, ETI 1644, ETI 1701** 12601 Industrial - PSV

**ETM 1010C, ETM 2315C** 12601 Industrial - PSV

**ETS 2531C, ETS 2535** 12601 Industrial - PSV

**REL 1200** 11849 Interdisciplinary - AP

The next meeting of the College Curriculum Committee is scheduled for July 11, 2018, and will be held on the West Campus. *Deadline for submission of materials for the agenda is **June 27, 2018.***

**P Valencia UCF DirectConnect Minutes**

See p. 4 of the document for specifics on the BAS in Software Development

Valencia UCF DirectConnect meeting

April 2, 2018

**Direct Connect Valencia UCF meeting  
April 2, 2018, 2-4pm  
Valencia College, Osceola Campus 4-105**

**Attendees UCF:** Angelia Smith, Carla Gripp, Catherine Brown, Deborah Bradford, Harrison Oonge, Jeff Jones, Jennifer Sumner, Jim Smith, Juanita Carpenter, Kimberley Cole, Kim Hardy, Pam Cavanaugh, Sean Armstrong

**Attendees Valencia:** Amy Kleeman, Ben Lion, Edwin Sanchez, Jamie Rost, Jill Szentmiklosi, Joe Sarrubbo, Joyce Romano, Kathleen Plinske, Katy Miller, Linda Herlocker, Michelle Foster, Nancy Mallison, Nasser Hedayat, Sonya Joseph, Stacey Johnson, Susan Ledlow

**INSTITUTIONAL UPDATES**

**UCF Connect – Jeff Jones**

- The Annual President's meeting was held in February 2018. Discussions included the current state of UCF Direct Connect and what are long-term goals are. A long-term goal announced by the presidents' is to engage with students earlier to prepare for transfer. Some concrete methods to achieve this goal have discussed.
- Elizabeth Dooley and Harrison Oonge are working together to develop pre-majors. Part of this work is driven by the Valencia College – UCF Downtown Campus which has necessitated the conversations.
- The presidents all agreed that the long-term health of the partnership is very good.

**Academics Valencia – Susan Ledlow**

- The Online Learning Initiative is continuing.
- Canvas migration happened this year and has gone very smoothly.
- Hyper definition is in place in the calendar and testing is underway with new plagiarism software.
- A team is ready to make recommendations for a new Faculty Institute that will prepare new faculty to teach online classes.
- Downtown Campus planning work is going well. A new curriculum alignment process is underway.
- Perkins funding is up this year for Workforce Development. (\$2.7 million)
- Susan Ledlow will be retiring in June 2018. Joan Tiller will serve as Interim VP until a search is conducted. Dr. Kathleen Plinske will become Executive Vice President in July. Daryl Davis has been promoted to Assistant Vice President for Institutional Research.

**Academics UCF – Harrison Oonge**

- Harrison announced a new degree major: B.A./B.S. Emergency Management, offered through the College of Health and Public Affairs
- The College of Engineering and Computer Sciences has proposed a new major in B.S. in Material Science and Engineering. This proposal is currently being reviewed. If approved the major will be available to students in Fall 2019.

**Student Affairs Valencia – Jill Szentmiklosi**

**Valencia UCF DirectConnect meeting**

**April 2, 2018**

- Student Affairs is focusing on revamping the new student services model. This work has been underway for over a year. The goals are to improve communication with students and staff across all campuses and use new technologies to achieve these goals.

**Student Affairs UCF - Angelia Smith**

- The Advising Updates Forum is scheduled for April 19.

**Osceola, Lake Nona, Poinciana Campuses– Kathleen Plinske**

- Valencia is searching for a new Campus President for Osceola Campus.
- A new position, VP for Analytics and Planning, has been posted.

**East and Winter Park Campuses – Stacey Johnson**

- The new Valencia-UCF offices on East campus will open in Fall 2018. There will be a shared conference room and new faculty space for faculty as well as a new physics lab.
- A new AS degree, New Media Communications, will be launched in Fall 2018.
- Two Dean searches are underway at East Campus (Math and Social Science).

**West and Downtown Campuses – Kathleen Plinske for Falecia Williams**

- New Dean positions are open at West Campus (Nursing, Allied Health, Hospitality and Culinary)
- West Campus new degree programs: Bachelor of Applied Science: Organizational Leadership, Bachelor of Nursing and AS in Management and Control Technology.
- Plans are underway to double the size of Valencia's AS Nursing Program in the next few years. The degree will be available at both Osceola and West Campuses.

**UCF Campuses – Kim Hardy**

- UCF is holding courses at the Criminal Justice Institute at Valencia.
- Marketing is ready to install new Direct Connect banners on all Valencia campuses.
- A new DirectConnect Success Coach will be hired soon at Osceola Campus.
- UCF Spring Degree Expos are April 17 and 18 at Osceola and West Campuses.
- West Campus project – rock gardens are being placed around the campus to inspire students. Motivational messages are written on the rocks.
- Virtual classes are being developed for Osceola Campus.

**Joint Projects/Actions:**

**College Access Summit – Joyce Romano**

- The College Access Summit will be on April 13, 2018 in the morning with Michelle Blackwell from the National Student Clearinghouse as the keynote speaker. The DirectConnect Steering Committee will hold a strategic planning workshop in the afternoon.

**Valencia West Campus PATHWAYS grant (Year 5) – Sonya Joseph**

- The grant ended on September 30, 2017. Valencia is sustaining advising staff positions associated with the grant. Lessons from the grant are being implemented in our processes. The final report has not been requested yet. Post note: Final directions from USDOE was to

submit a Year 5 report. Valencia created a summary grant report and new student orientation report for internal use that Sonya can provide upon request.

**Engage – L.S. AMP grant**

- This consortium grant includes Valencia, Lake Sumter State College and Polk State College, and focuses on increasing under-represented minority student entry into STEM bachelor's degrees. It is a second NSF award for this work. The first grant accomplished a 20% increase. In addition to UCF, USF, UF, FIT and Florida Polytechnic are transfer institutions with whom alliances are being developed for student entry. Eda Davis-Lowe is the Director of STEM programs and Kassy Holmes is the Project Director.

**Camino a UCF – Osceola Campus -**

- Students participate in cohort groups in psychology, business, or criminal justice to complete the associate degree in two years with courses blocked out for them each term. Graduates then transfer to UCF with all pre-requisites met.

**Valencia East Campus Title V (Year 3) -**

- The Spring term pilot with faculty mentors and students is nearing completion. Faculty mentors in education, business, psychology and fine arts participated in training and then developed discipline specific plans for engaging students. Faculty mentors work in collaboration with Program Advisors who are also assigned to these discipline groups. The plans were to implement a CRM to support this work but that implementation was discontinued due to a series of technical difficulties. Valencia is looking into the implementation of UCF's version of EAB to support this work in Fall 2018.

**Downtown Campus -**

- Plans for the Fall 2019 opening of the Valencia and UCF Downtown Campus are progressing in terms of curriculum and academic pathways, student experience, buildings, and an integrated urban university experience. It was suggested to hold the Fall Valencia UCF Downtown meeting at the Downtown Campus so that this team can see its development.

**Excelencia in Education Hispanic Serving Initiative – March meeting -**

- Both Valencia and UCF staff teams participated in the March meeting in Phoenix to continue the discussion and planning to define what it means to be a Hispanic student serving institution. This was the 4th meeting of this group which will continue to October 2018.

**TheDream.us scholarships -**

- Valencia and UCF student affairs teams have met to review our processes and determine how we can better serve and communicate with undocumented students so that they know what to expect from each institution. We are also sharing student transition information specifically for theDream.us scholarship recipients so that they know whether their residency status will allow their continuation of the scholarship at UCF.

**Work Force Group – Sean Armstrong, Nasser Hedayat**

- A proposal for a new Valencia Bachelor of Applied Science in Software Development was reviewed and approved by the Work Force Group. UCF is ending their bachelors program in this area and there is documented workforce demand in central Florida. The Consortium Academic Collaboration Committee also approved this degree proposal. **From p. 7, Feb. 12, 2018**
- Valencia has submitted an NSF grant for Electrical Engineering and Advanced Manufacturing
- Valencia was awarded \$50,000 from the Aspen Siemens prize which will be used for student scholarships.
- Valencia certifications have increased again this year, which will increase the funding allocation from the state.
- The Aspen Institute visited Valencia on March 5-6 for their research on the Playbook for Workforce Outcomes. 14 interviews with various Valencia, UCF and business leader teams were held. Their exit interview was very complimentary about Valencia's workforce connections.

**Advising: DirectConnect to UCF Success Coaches – Angie Smith, UCF Success Coaches**

- Last July we combined the positions of Advising, Enrollment Services and DirectConnect Advising into the one position – "Success Coach". We continue to train and work on methods of outreach to students who signed up for DirectConnect.
- Catherine shared highlights from a written report of the activities and events that have taken place. Info tables at events are most successful at reaching students. The Degree Expo at West Campus had 330 student attend, which is the highest turn-out rate since its inception. About 125 were invited to the Valencia Teacher Education Program Orientation that was held at East Campus. Student feedback tells us that students are now better understanding everything that DirectConnect has to offer to them. Next year's Expos will be at East and Osceola Campuses.

**Advising: Advising/Counseling – Valencia Deans of Students -**

- Joe Sarrubbo - The LifeMap 2.0, Year 3 staffing plan just wrapped up. The goal of this 3 year plan was to hire additional program advisors. These program advisors will be assigned to all AA degree seeking students at 12 credit hours. The goals were to: 1) get our advisor to student ratio down to 500 to 1, and 2) and have named advisors assigned to AA-degree seeking students individual students who have 12 credit hours. We have on-boarded 60 new program advisors along with 8 leadership positions that include Campus Directors of Advising and Assistant Directors of Advising. The average Advisor to student ratio at East Campus is currently 1 to 631. Advisors are auto-assigned to students. Students can schedule appointments with their advisors in Atlas.

**Enrollment: Reports – Deborah Bradford, Linda Herlocker**

- Linda provided the summary report of Direct Connect enrollment at Valencia. Enrollment for students with a DirectConnect attribute is up 9% overall. The DirectConnect non-degree seeking student numbers have decreased which tells us students are better able to choose their degree programs earlier.

**Enrollment: Reverse Transfer – Edwin Sanchez**

- Deborah Bradford provides a reverse transfer student list to Valencia 3 times a year. Valencia goes through the list and researches each student to see what they are missing and then send a letter that encourages them to get their degree award. Since the reports started, we have awarded 493 degrees from this program.

**Valencia UCF DirectConnect meeting**

April 2, 2018

- Linda added that four Graduate Program Advisors have been added to reach out to students who are close to graduating (have at least 45 credits) and encourage them to complete their degrees. They have made a measurable difference with students' success rates.

**Enrollment: UCF Online – Connect Center – Jenny Sumner**

- The Connect Center is fully online and expanding due to increased enrollment. We now enroll over 3400 students who plan to get their degrees online. This surpasses our five-year goal in just two years.
- The benefits for online students are reduced campus-based fees and assignment of an online success coach.

**Transfer Alliance – Jenny Sumner**

- Transfer Alliance has four areas of focus: Communication, enhanced credit evaluation processes, student engagement and student academic connections.
- UCF is looking at a new system for credit evaluation which should speed up the process that can currently take up to 5 weeks. Using optical character recognition, the process can be reduced from weeks to days.

**Curriculum Alignment –Angie Smith**

- UCF has created a "Curriculum Alignment User's Guide" to improve the process of curriculum alignment.
- A seven-session training program for faculty is being developed that will help familiarize them with student transfer issues.

**Curriculum Alignment –Harrison Oonge**

- UCF and Valencia faculty have been working together to develop a common rubric for Writing/Rhetoric and Speech.
- Faculty have been added to the Downtown Campus for curriculum alignment. A portal is in place for sharing and reviewing assessment information. Contact Emilie Bottorff if you want access to the portal.
- UCF advisers are attending curriculum meetings. Certificates of recognition are being awarded to faculty and advisors.
- UCF had good participation from faculty and advisors at the DirectConnect Curriculum Alignment Conference on March 2 at West Campus.

**International DirectConnect to UCF – Deborah Bradford**

- Valencia and UCF are hosting 12 students from the Bahamas beginning April 3. Our collaborative recruitment trips are beginning to show results. UCF just completed a recruitment trip to Brazil where they spoke to over 500 students.
- The percentage of international students applying to UCF through DirectConnect have gone up 52% in the last year. Valencia's total has gone up 44%.
- Vanessa attended New Student Orientation and Information Sessions to meet one on one with international students.

**Data: Data Working Group – Deborah Bradford**

- A revised and updated feedback report was completed this fall. This report was part of the High Level President's Report and was well received.

**Valencia UCF DirectConnect meeting**

**April 2, 2018**

- A repository for data reports will be established that each institution will have access to. It will allow for special data requests from UCF and Valencia.
- A meet of the Data Working Group will soon be scheduled to discuss requests for the new data repository.

**Data: CFEED (Central Florida Education Ecosystem Database) – Joyce**

- On March 30, a CFEED Legal Agreement meeting with our partners was held at West Campus and all the legal agreements for CFEED were finalized. We are now awaiting final approval by our partners' school boards.
- Our technical partner, Accenture, will begin building the database in May. We expect output from the data by the end of the year.

**Resources: Johnson Scholars and other scholarships – Deborah Bradford, Jill Szentmiklosi**

- The JSS applications for students who have transferred to UCF (and did not have the scholarship with our partners) will be opening next week. This will be UCF's 2nd year for JSS starting in fall 2018.
- The transfer scholarship applications for students coming to UCF with an AA will close April 15 for Culture Diversity Scholarship, Strong Scholarship (promotes STEM) and others.

**Next Meeting**

- The next DirectConnect to UCF meeting will be scheduled in Fall 2018.

**Q Valencia Service Area Higher Education Letter of Support:**  
Brian Lucas, Campus Director, Central Florida Campus, University of Phoenix



April 27<sup>th</sup>, 2018

Dr. Nasser Hedayat  
Assistant Vice President  
Career and Workforce Education; Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Re: Letter of Support for Bachelor of Applied Science in Software Development

As an academic partner and as an advocate for continuing to advance the education of the Central Florida workforce, University of Phoenix is supportive of the addition of the Bachelors of Applied Science in Software Development program offering at Valencia College.

While University of Phoenix offers a similar program in our Bachelor of Science in Information Technology with an Advanced Software Developer Certificate to local residents including approximately 39 current students, these courses are currently only being offered in an online modality. The ability for Valencia College to provide an additional educational opportunity for students preferring a local modality with in-person facilitation would positively impact the ability of prospective students to select the best option for academic success. Additionally, the majority of University of Phoenix students are working adults that differ from the student demographic that typically attend State Colleges and Universities.

The opportunity for University of Phoenix to enhance our current affiliation with Valencia College through the development of concurrent enrollment in BAS SD courses and/or transition pathways for BAS SD graduates of Valencia who wish to further their education at the Master's level while working full time would offer a unique partnership that would benefit the students, graduates, and local community.

University of Phoenix looks forward to our continued academic partnership with Valencia and our collective support of the Central Florida community.

A handwritten signature in black ink that reads "Brian Lucas".

Brian Lucas  
Campus Director, University of Phoenix - Central Florida Campus  
[Brian.Lucas@phoenix.edu](mailto:Brian.Lucas@phoenix.edu)

**WE RISE**

**R Service Area Employer Letter of Support**

Alvaro Pesce, MasterBase, LLC, Chief Executive Officer



June 18, 2018

**Dr. Sanford Shugart**

President

Valencia College

1768 Park Center Drive

Orlando, Fl. 32835

Dear Dr. Shugart:

MasterBase LLC enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. MasterBase is in the process of opening a new software development team in the Orlando area, for which this baccalaureate degree, would be an excellent opportunity.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the Software as a Service industry and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented people with baccalaureate degree as computer system managers and analyst, software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor's degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in the opening of this new development team.

Best Regards,

A handwritten signature in blue ink, appearing to read "Alvaro Pesce".

**Alvaro Pesce**

CEO

MasterBase LLC

apesce@masterbase.com

**S Valencia Service Area SUS Letter of Support:**

Jeffrey Jones, Vice Provost – UCF Connect, University of Central Florida



UNIVERSITY OF CENTRAL FLORIDA

**UCF Connect**

12201 Research Parkway, Suite 101  
Orlando, FL 32826-0060

May 30, 2018

**RE: Support for Valencia College's proposed Bachelor of Applied Science in Software Development**

As a representative of the University of Central Florida (UCF), I am writing this letter to support the Bachelor of Applied Science in Software Development being proposed by Valencia College.

In 2005, the Central Florida Higher Education Consortium was formed to guarantee admission to students graduating with an Associate of Arts, as well as selected Associate of Science degrees, from Consortium member institutions to the University of Central Florida. The consortium operates within the guidelines of a Regional Operational Plan. With this agreement, consortium member institutions agree to conduct a collaborative review of new baccalaureate degrees being proposed by any of the six state college members. This review process involves a regional workforce supply-demand gap analysis, advice from local employers, and an extensive review of data shared among the chief academic officers of each member institution.

The consortium members believe that this review process is thorough, and it is consistent with the members' shared goals of meeting local and regional workforce demands without unnecessary duplication of degree programs.

Our research has shown that on average companies within Valencia College's service area are averaging 37% or 950 hires out of 2,606 job postings per month. In addition, through conversation with UCF College of Engineering and Computer Sciences Associate Dean Charles Reilly, there are fundamental differences between the proposed BAS degree and those degrees offered through UCF's Department of Computer Science. Both UCF Connect and the College of Engineering and Computer Sciences agree that the BAS degree being proposed by Valencia College is a degree that is clearly aimed at meeting local workforce needs in software development, and we offer our full support.

Therefore, I add my support to this proposed Bachelor of Applied Science degree, and believe that if approved, it will serve to better prepare software developers for the economy of Central Florida.

A handwritten signature in blue ink, appearing to read "J. Jeffrey Jones".

J. Jeffrey Jones, Ph.D.  
Vice Provost  
UCF Connect

CC: Interim Provost Elizabeth Dooley  
Michael Georgiopoulos, Dean, College of Engineering and Computer Science  
Charles Reilly, Associate Dean, College of Engineering and Computer Science

**T Agency Letter of Support:**

Pamela Nabors, President & CEO, CareerSource Central Florida



June 27, 2018

Assistant Vice President Nasser Hedayat  
Valencia College  
1768 Park Place Drive  
Orlando, Florida 32835

Dear Dr. Hedayat,

CareerSource Central Florida (CSCF) would like to express our support for Valencia College in its desire to offer a Bachelor's of Applied Science (BAS) in Software Development.

As the regional workforce board serving Central Florida, we see a growing need for front-line, management and supervisory employees that are well-trained in technology to meet the demands of today's environment. The proposed bachelor program would enhance and expand training opportunities and desired skills for Central Floridians and, in particular, the five counties served by CSCF.

As the state's largest college covering the largest geographic area, Valencia College is uniquely positioned to serve this widespread need. And, as the regional workforce board serving Sumter, Lake, Orange, Osceola, and Seminole counties, we encourage programs within the region that train a talent pipeline to address the specific needs of Central Florida businesses and also support career pathway progression opportunities for those currently in the field. We, in turn, support training programs that can partner with us to fulfill these vital requirements.

For these reasons I support Valencia's pursuit of the BAS program. We are therefore asking the State to approve Valencia College's request to begin offering a degree in software development as it will provide enrollees with the opportunity to obtain a credential that can lead them to high paying jobs with sustainable and steady employment for years to come.

This request will clearly serve the needs of businesses and provide a well-trained talent pipeline for years to come.

Sincerely,

A handwritten signature in black ink that reads "Pamela Nabors".

Pamela Nabors  
President and CEO  
CareerSource Central Florida

CareerSourceCentralFlorida.com  
390 North Orange Avenue, Suite 700 | Orlando, FL 32801  
p. 407.531.1222 | f. 407.708.1385 | TTY/TTD 711



## U Press Release CEO Organization Donates \$150,000 for Scholarships to Valencia College



**Thursday, July 19, 2018**

The CEO Leadership Forums, a group of Orlando business leaders, awarded Valencia College two checks for \$150,000, which will be used to provide student scholarships.

The award breakfast, which brought together more than 50 business leaders and college officials, was held at Valencia College's District Office on July 19.

The CEO Leadership Forums committed \$100,000 over the next three years to provide scholarships for students enrolled in Valencia's new Bachelor of Applied Science program in Business and Organizational Leadership. The degree, which launched in May, is designed to help students who have earned an associate's degree to add business skills to their training and prepare for leadership positions.

In addition, international tech firm MasterBase presented \$50,000 in scholarship funds for students in the Bachelor of Applied Science program in Software Development, a degree that Valencia's board of trustees approved in April for submission to the State Board of Education.

In presenting the check, MasterBase General Manager Alvaro Pesce Cotera said, "It was time to give something back."

"We are very excited about our partnership and working relationship with CEO Leadership Forums and its dynamic sponsor team," said Nasser Hedayat, Valencia's assistant vice president of career and workforce education. "In addition to student scholarships, the Forums' guests and their companies can provide opportunities for student internships and part-time jobs, serve as guest speakers for classes or serve as board members for Valencia's new business administration program advisory council."

The CEO Leadership Forums is an educational organization that mentors middle-market CEOs in Central Florida and provides scholarships to students who will fill the needs of those participating companies.

The organization was founded by CFO Services firm Nperspective, in collaboration with CenterState Bank of Florida and Fringe Benefit Plans, CPA firm Grennan Fender, law firm Swann Hadley, wealth management firm Griffis & MacClary, recruiting company REMX and Risk Management Company IOA.

**V Valencia Service Area SUS Letter of Support:**  
Dr. Dale Whittaker, President, University of Central Florida



**UNIVERSITY OF CENTRAL FLORIDA**

**Office of the President**  
P.O. Box 160002  
Orlando, FL 32816-0002

August 20, 2018

Sanford Shugart  
Valencia College  
Office of the President  
P.O. Box 3028  
Orlando, FL 32802

Dear President Shugart,

Please accept this letter of support for Valencia College's proposed Bachelor of Applied Science in Software Development.

The University of Central Florida and Valencia College are long-time partners, committed to advancing opportunities for educational attainment and success in our Central Florida community. Our partnership allows us to streamline pathways to a postsecondary degree, while avoiding duplication of offerings in our region.

UCF presented the proposed new program to its Board of Trustees in July and has no objections to the proposal because there are fundamental differences between that being proposed by Valencia College and those offered by UCF.

Sincerely,

A handwritten signature in black ink that reads "Dale Whittaker".

**Dale Whittaker, Ph.D.**  
President

Phone: 407.823.1823 • Fax: 407.823.2264  
An Equal Opportunity and Affirmative Action Institution

## W Higher Education Communication

### Keiser University Email Communicating Intent to Submit Proposal

**From:** Nasser Hedayat  
**Sent:** Thursday, May 3, 2018 10:40 AM  
**To:** ssparks@keiseruniversity.edu  
**Cc:** Nasser Hedayat <nhedayat@valenciacollege.edu>  
**Subject:** BAS in Software Development

Dear Dr. Sparks,

Hope this email finds you well. Valenda has submitted to the Florida Department of Education a Notice of Intent to offer a Bachelor of Applied Science in Software Development. I would like to meet with you in person or via phone to discuss this opportunity and potential articulation to your graduate programs.

Regards,

Hedayat

**Dr. Nasser Hedayat**  
Assistant Vice President  
Career and Workforce Education  
1768 Park Center Drive  
Orlando, FL 32835 DO-30



P-407-582-3158

[nhedayat@valenciacollege.edu](mailto:nhedayat@valenciacollege.edu)

<http://valenciacollege.edu/academic-affairs/career-workforce-education/about-us/nasser-hedayat.cfm>

**From:** Nasser Hedayat  
**Sent:** Friday, May 18, 2018 7:03 PM  
**To:** ssparks@keiseruniversity.edu  
**Cc:** Cathy Campbell  
**Subject:** Re: BAS in Software Development

Hello Dr. Sparks,

I am following up on the email below sent on May 3, regarding Valencia's plan to offer a BAS degree in Software Development.

Please let me know of a possible time to connect to discuss this important program and transfer opportunities for our students.

Look forward to hearing from you.

Regards,

Hedayat

Sent from my iPad

**X Itemized New Library/Media Resources Needed Relevant to the BAS Software Development**

<b>Books</b>		
<b>Title</b>	<b>Publisher</b>	<b>Price</b>
Android App Development	JONES & BARTLETT LEARNING	\$109.95
A Guide to the Project Management Body of Knowledge - 6th Ed.	Project Management Institute	\$55.00
Accelerate: the Science of Lean Software and Devops	IT Revolution Press	\$19.96
Agile Practice Guide	Project Management Institute	\$23.99
Agile Project Management for Dummies	For Dummies	\$19.88
Android Programming Concepts	JONES & BARTLETT LEARNING	\$98.95
Beginning Devops with Docker	Packt Publishing	\$14.99
Beginning Windows Mixed Reality Programming: for HoloLens and Mixed Reality Headsets	APRESS	\$39.99
Build Your First Web App: Learn to Build Web Applications from Scratch	STERLING PUB CO INC	\$19.95
C# 7.0 All-In-One for Dummies	For Dummies	\$28.15
C# 7.0 In A Nutshell: the Definitive Reference	O'Reilly Media	\$59.99
C++ Templates: the Complete Guide	ADDISON-WESLEY	\$79.99
Clean Architecture: A Craftsman's Guide to Software Structure and Design	PRENTICE HALL	\$37.99
Clean C++: Sustainable Software Development Patterns and Best Practices with C++ 17	APRESS	\$39.99
Core Java Se 9 for the Impatient	ADDISON-WESLEY	\$49.99
Core Java SE 9 for the Impatient, 2nd Ed.	Addison-Wesley	\$40.57
Database Systems: Design, Implementation, & Management	Cengage Learning	\$224.32
Discrete Event Modeling and Simulation: with UML and BPIM Using Java and JavaScript.	DE GRUYTER OLDENBOURG	\$57.99
Effective C#: 50 Specific Ways to Improve Your C#	ADDISON-WESLEY	\$44.99
Effective Debugging: 66 Specific Ways to Debug Software and Systems	ADDISON-WESLEY	\$39.99
Effective SQL: 61 Specific Ways to Write Better SQL	Packt Publishing	\$44.99
Front-End Development with Asp.Net Core, Angular, and Bootstrap	JOHN WILEY	\$50.00
Fundamentals of Software Development	O'REILLY MEDIA	\$49.99
Getting Started with Kubernetes	Pact Publishing	\$44.99
Introduction to Game Design, Prototyping, and Development: from Concept to Playable Game with Unity and C#	ADDISON-WESLEY	\$79.99
IOS 11 Programming Fundamentals with Swift: Swift, Xcode, and Cocoa Basics	O'REILLY MEDIA	\$54.99
Java Programming for Android Developers for Dummies	JOHN WILEY	\$34.99
Java Programming for Beginners	Pact Publishing	\$34.99
Kubernetes: Up and Running: Dive Into the Future of Infrastructure	O'Reilly Media	\$19.30
Learning Swift: Building Apps for MacOS, IOS, and Beyond	O'REILLY MEDIA	\$49.99
Linux for Embedded and Real-Time Applications, 4th Ed.	Newnes	\$49.95
Linux Hardening In Hostile Networks: Server Security from TLS to TOR	ADDISON-WESLEY	\$39.99

<b>Books</b>		
<b>Title</b>	<b>Publisher</b>	<b>Price</b>
Mastering Kubernetes: Master the Art of Container Management By Using the Power of Kubernetes	Pact Publishing	\$44.39
Microsoft Visual C# 2017: An Introduction to Object-Oriented Programming	CENGAGE LEARNING	\$199.95
Model-Driven Engineering and Software Development:5th International	SPRINGER INTERNATIONAL PU	\$99.99
More Effective C#: 50 Specific Ways to Improve Your C#	ADDISON-WESLEY	\$44.99
Object-Oriented Data Structures Using Java.	JONES & BARTLETT LEARNING	\$174.95
Practical Guide to Database Design, Second Edition	CRC PRESS	\$99.95
Practical Modern JavaScript	O'REILLY MEDIA	\$49.99
Practical Object-Oriented Design in Ruby: An Agile Primer.	ADDISON-WESLEY	\$44.99
Sam's Teach Yourself PHP, MYSQL & JavaScript All in One	SAMS	\$44.99
Scrum for Dummies	For Dummies	\$25.70
Software Fault Detection and Correction: Modeling and Applications	SPRINGER	\$69.99
Software Methodologies: A Quantitative Guide	AUERBACH PUBLICATIONS	\$99.95
Virtual Reality Developer	REFERENCEPOINT PR INC	\$29.95
	<b>TOTAL</b>	<b>\$2,690.56</b>

<b>E-Books</b>		
<b>Title</b>	<b>Publisher</b>	<b>Price</b>
Agile Developer's Handbook; Get More Value from Your Software Development: Get the Best Out of the Agile Methodology	PACKT PUBLISHING	\$47.99
Agile UX Storytelling: Crafting Stories for Better Software Development	APRESS	\$49.98
Analyzing the Role of Risk Mitigation and Monitoring in Software Development	ENGINEERING SCI REFER IGI	\$337.50
Application Performance Management (APM) in the Digital Enterprise: Managing Applications for Cloud, Mobile, IOT and EBusiness	MORGAN KAUFMANN	\$107.91
Beginning Programming with Java	JOHN WILEY	\$78.75
Beginning Progressive Web App Development: Creating A Native App Experience On the Web	APRESS	\$79.98
Beginning Serverless Computing: Developing with Amazon Web Services, Microsoft Azure, and Google Cloud	APRESS	\$69.98
Build Android-Based Smart Applications: Using Rules Engines, NLP and Automation Frameworks	APRESS	\$49.98
C Programming and Numerical Analysis: An Introduction	MORGAN & CLAYPOOL	\$359.93
C# Programming for Absolute Beginners	APRESS	\$49.98
Certifiable Software Applications; 2: Support Processes	ISTE LTD	\$234.00
Complete Guide to Digital Project Management: from Pre-Sales to Post-Production	APRESS	\$79.98
Deep Dive Into NOSQL Databases: the Use Cases and Applications	ELSEVIER ACADEMIC PRESS	\$327.60

<b>E-Books</b>		
<b>Title</b>	<b>Publisher</b>	<b>Price</b>
Design Patterns in Modern C++: Reusable Approaches for Object-Oriented Software Design.	APRESS	\$69.98
Developing Bots with Microsoft Bots Framework: Create Intelligent Bots Using MS Bot Framework and Azure Cognitive Services	APRESS	\$79.98
Developing Service-Oriented Applications Using the Windows Communication Foundation (WCF) Framework	INFORMATION SCI REFER IGI	\$300.00
Emerging Trends in Open Source Geographic Information Systems	ENGINEERING SCI REFER IGI	\$292.50
Exploring Java 9: Build Modularized Applications in Java	APRESS	\$59.98
Free and Open Source Software in Modern Data Science and Business Intelligence: Emerging Research and Opportunities	ENGINEERING SCI REFER IGI	\$285.00
From Variability Tolerance to Approximate Computing in Parallel Integrated Architectures and Accelerators	SPRINGER	\$258.00
How Successful Organizations Implement Change: Integrating Organizational Change Management... and Project Management to Deliver Strategic Value	PROJECT MANAGEMENT INST	\$67.43
Infrastructure Software Modules for Enterprises: Flexible Software Systems, Module Use-Cases, and Wireframes	APRESS	\$89.98
Introduction to Component-Based Software Development	WORLD SCIENTIFIC	\$175.50
Java 9 Data Structures and Algorithms	PACKT PUBLISHING	\$47.99
Java 9 Modularity Revealed: Project Jigsaw and Scalable Java Applications	APRESS	\$69.98
Java APIs, Extensions and Libraries: with JavaFX, JDBC, JMOD, JLink, Networking, and the Process API	APRESS	\$119.98
Java for Dummies	APRESS	\$52.49
Java Game Development with LIBGDX: from Beginner to Professional.	APRESS	\$79.98
Learn Android Studio 3: Efficient Android App Development	APRESS	\$79.98
Learning Aws.; Design, Build, and Deploy Responsive Applications Using Aws Cloud Components	PACKT PUBLISHING	\$53.99
Make Your Own Python Text Adventure: A Guide to Learning Programming	APRESS	\$39.98
Managing Software Crisis: A Smart Way to Enterprise Agility	SPRINGER	\$278.00
Mixed Intelligent Systems: Developing Models for Project Management and Evaluation.	BIRKHAUSER	\$139.98
Mobile Cloud Computing: Foundations and Service Models	MORGAN KAUFMANN	\$143.91
Network Programming with Go: Essential Skills for Using and Securing Networks	APRESS	\$79.98
Object-Oriented Programming with Simotion: Basic Principles, Program Examples and Software Concepts According to IEC 61131-3	JONES & BARTLETT LEARNING	\$61.16
Practical Android: 14 Complete Projects On Advanced Techniques and Approaches	APRESS	\$59.98
Practical App Development with Aurelia: Leverage the Power of Aurelia to Build Personal and Business Applications	APRESS	\$69.98
Practical C++ Design: from Programming to Architecture	SPRINGER	\$69.98
Practical Open Source Alternatives to Commercial Software	APRESS	\$69.98

<b>E-Books</b>		
<b>Title</b>	<b>Publisher</b>	<b>Price</b>
Practical Webix: Learn to Expedite and Improve Your Web Development	APRESS	\$44.99
Pro Functional PHP Programming: Application Development Strategies for Performance Optimization, Concurrency, Testability, and Code Brevity	APRESS	\$79.98
Pro iPhone Development with Swift 4: Design and Manage Top Quality Apps	APRESS	\$79.98
Professional C++	JOHN WILEY	\$113.75
Project Management Best Practices: Achieving Global Excellence	JOHN WILEY	\$173.25
Python Programming Blueprints; Build Nine Projects By Leveraging Powerful Frameworks Such As Flask, Nameko, and Django.	PACKT PUBLISHING	\$59.99
Real-Time C++: Efficient Object-Oriented and Template Microcontroller Programming.	SPRINGER	\$149.98
Software Development, Design and Coding: with Patterns, Debugging, Unit Testing, and Refactoring	APRESS	\$79.98
Software Failure Investigation: A Near-Miss Analysis Approach	SPRINGER	\$218.00
Software Quality Assurance	JOHN WILEY	\$201.25
Swift 3 Object Oriented Programming	PACKT PUBLISHING LIMITED	\$47.99
Swift 4 for Absolute Beginners: Develop Apps for IOS.	APRESS	\$69.98
Using MVVM Light with Your Xamarin Apps	APRESS	\$89.98
Working with Coders: A Guide to Software Development for the Perplexed Non-Techie	APRESS	\$59.98
	<b>TOTAL</b>	<b>\$6,538.31</b>

<b>New Library/Media Resource Summary of Need Relevant to BAS in Software Development</b>		
	Books Total	<b>\$2,690.56</b>
	E-Books Total	<b>\$6,538.31</b>
	<b>GRAND TOTAL</b>	<b>\$9,228.87</b>

**Y Other Service Area Employers Letters of Support:**  
Suzanne DeBusk, DragonPoint Software, Inc.



June 13, 2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

DragonPoint Software enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. DragonPoint Software is always searching for developers with Microsoft technology stack skills, especially C#, Visual Studio, MS SQL, and Javascript.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the custom software development industry and DragonPoint's associated client base in industries such as Health Care, Transportation, and professional services and our workforce need in Orange, Osceola, and Brevard counties. We are continuously in need of highly qualified and talented managers at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

Suzanne DeBusk  
CEO/Founder  
DragonPoint Software, Inc.  
suzic@dragonpoint.com

## Z Other Service Area Employer Letters of Support

Daryl Dixon, Chief Executive Officer, VALiNTRY Services, LLC



June 14, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

VALiNTRY Services, LLC, a Technology Advisory Company, enthusiastically supports Valencia College in the pursuit of offering a baccalaureate degree in Software Development. We are a certified Microsoft, Salesforce and Google partner and work with a wide range of companies to develop custom Technology Strategic Plans to support our clients sales growth and profitability. In addition to our technology consulting practice, we provide technology talent staffing to a number of large employers locally and nationally utilizing our proprietary recruiting system call V-FiTT.

I personally know that Valencia College has an outstanding track record of providing excellent education, training that positively affects and improves the availability of talent in the business community among other industries. We would look forward to the help of Valencia College to expand the supply of Software Developers. VALiNTRY is continuously in need of highly qualified and talented people with baccalaureate degrees as computer system managers and analysts, software developers, application developers, as well as mobile application developers.

We monitor the open technology positions in Central Florida closely, since it is our business, and according to our job posting resources, we estimate the following open positions during the past 6 months through today June 14, 2018.

1. **Software Developer** – 3,198 open positions, with a median annual salary of \$124,800
2. **Cloud Engineer** – 946 open positions, with a median annual salary of \$99,500
3. **Business/Data Analyst** – 1,722 open positions, with a median annual salary of \$79,000
4. **Network/Systems Engineer** – 915 open positions, with a median annual salary of \$90,000

As you can see, the need is significant and the new program could make a major contribution to the need in our community.

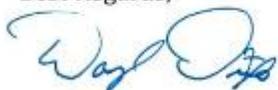
We would look forward to the possibility of recruiting directly from Valencia College's proposed Software Development degree program. I am confident that it will prove an ideal

1201 S. Orlando Ave., Suite 440 \* Winter Park, FL 32789

platform for providing much needed, highly skilled, technology personnel locally, and throughout Florida. If the program would like the students to experience real world technology environments, we would also be interested in exploring the possible use of interns from this proposed new and highly needed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and the local economy.

Best Regards,



Daryl Dixon  
CEO  
VALiNTRY Services, LLC  
ddixon@valintry.com

1201 S. Orlando Ave., Suite 440 \* Winter Park, FL 32789

**AA Other Service Area Employer Letters of Support**

Tim Giuliani, President and CEO, Orlando Economic Partnership

June 14<sup>th</sup>, 2018

Stephanie Howell  
Director of Community Affairs  
Valencia College  
1800 S. Kirkman Rd, Orlando, FL , 32811

Stephanie,



The Orlando Economic Partnership enthusiastically supports Valencia College in its pursuit of offering a baccalaureate degree in Software Development. With the addition of such a program, students will have yet another incentive and opportunity to come to the Orlando area. Local students will have to look no further for this particular program. A highly educated and specialized workforce will allow our state and region to better compete in our global economy.

Valencia College has a long standing and remarkable track record of providing excellent leadership in education, training and resources in Orange and Osceola counties. The expansion of four-year degrees boosts our communities' desire and commitment to raise the higher-educational standard among our citizenry. Additionally, it will improve our workforce and its ability to positively affect change within their chosen area of employment.

The industries that the Orlando Economic Partnership assist to retain, grow and recruit demand a high quality of life and an educated diverse workforce. Therefore, the development of the locally available Bachelor of Applied Science in Software Development will provide our area residents with needed opportunity for skill growth. In the past, the region has suffered the loss of highly skilled individuals as they relocate to attend degree programs elsewhere and then do not return. The availability of this baccalaureate program will assist in keeping our talent here locally for continued growth of our business and economy. This innovative program will advance Orlando's talent pipeline and expand our global reach and competitiveness amongst a multitude of other benefits.

Onward,



Tim Giuliani

President & CEO

Orlando Economic Partnership

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801 E. Pine Street, Suite 900  
Orlando, FL 32801

PH 407.422.7158  
FY 407.425.6425

info@orlando.org  
orlando.org

**BB Other Service Area Employer Letters of Support**  
Declan Link, President/Founder, Link2Solutions, LLC



June 14, 2018  
Declan Link  
President/Founder  
Link2Solutions LLC  
1310 Radclyffe Road  
Orlando, FL 32804

Dear Dr. Shugart:

Link2Solutions LLC enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. *Link2Solutions LLC* works in the IT recruitment vertical, and there is a shortage in the supply of Software Developers in the Metro Orlando area.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the Technology industry and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented managers at a baccalaureate level in particular in areas like software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Declan Link', written over a light blue horizontal line.

Declan J. Link  
President/Founder  
Link2Solutions LLC  
Declan.Link@Link2Solutions.us.com

**CC Other Service Area Employer Letters of Support**  
Warren Dietel, Puff-n-Stuff Events/Catering



June 18<sup>th</sup>, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, Florida 32835

Dear Dr. Shugart:

Puff 'n Stuff Catering enthusiastically supports Valencia College in its pursuit of offering a baccalaureate degree in Software Development. Puff 'n Stuff Catering is in need of software developers as we are consistently in need of new ways to streamline and modernize our catering and event services processes, both internally and client-facing.

Valencia College has a long-standing and remarkable track record of providing excellent education, training, and resources which positively affects and improves the catering industry and our workforce needs in Orange and Osceola counties. We are continuously in need of highly qualified and talented people with baccalaureate degrees as computer system managers and analysts, software developers, app developers, and mobile app developers. We would look forward to recruiting directly from Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

A handwritten signature in black ink, appearing to read 'Warren Dietel', is written over a light blue horizontal line.

Warren Dietel  
Puff 'n Stuff Catering  
CEO and Owner  
warren@puffnstuff.com  
O: (407) 398-6306  
C: (407) 227-5697

PUFF 'N STUFF CATERING & EVENTS  
250 Rio Drive • Orlando, Florida 32810 | 5804 E. Columbus Drive • Tampa, Florida 33619  
puffnstuff.com

**DD Other Service Area Employers Letters of Support:**  
Heath Hensley, Chief Technology Officer, PowerDMS



July 23, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

PowerDMS   
www.powerdms.com   
800.749.5104   
101 S. Garland Ave, Ste 300   
Orlando, FL 32801

Dear Dr. Shugart,

PowerDMS enthusiastically supports Valencia College in its pursuit of offering baccalaureate degree in Software Development. PowerDMS is growing software-as-a-service company based in Downtown Orlando. We have received multiple rounds of funding and have an aggressive growth plan that is in constant need of additional engineering talent.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the Software Industry and our workforce need in Orange and Osceola counties. We are continuously in need of highly qualified and talented people with baccalaureate degree as computer system managers and analyst, software developers, app developers, and mobile app developers. We would look forward to recruiting directly from a Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best regards,

Heath Hensley

Chief Technology Officer

**EE Other Letters of Support:**

Raymond T. Watson, Chief Executive Officer, Executive Leadership Resources, Inc. (ELRI)



June 25, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, Fl. 32835

Dear Dr. Shugart:

ELRI enthusiastically support Valencia College in its pursuit of offering baccalaureate degree in Software Development. I facilitate groups of CEOs that have a continuing need for individual with a wide range of IT and software development needs.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves all aspects of Central Florida's business marketplace and our workforce needs in Orange and Osceola counties. We are continuously in need of highly qualified and talented people with baccalaureate degrees as computer system manager and analyst, software developers, app developer, and mobile app developers. We would look forward to recruiting directly from Valencia College's proposed bachelor degree, as it will prove an ideal platform for providing highly skilled personnel.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Sincerely,

*Raymond T. Watson*

Raymond T. Watson  
CEO, Executive Leadership Resources, Inc. ELRI  
ray@exec-leaders.com

**FF Other Service Area Employer Letters of Support:**

David H. Ugan, Vice President IT, Foundation Partners Group



6/25/2018  
Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

Foundation Partners Group is using technology and hospitality industry 'best practices' to change a traditional industry – funerals. We enthusiastically support Valencia College in its pursuit of offering a baccalaureate degree in Software Development. Foundation Partners is hiring developers to help us build the applications to change this industry and finding talent has not been easy.

Valencia College has a long standing track record of providing excellent education, training, and resources that enhance the workforce in Orange and Osceola counties. Foundation Partners is continuously in need of highly qualified and talented people with baccalaureate degrees software development, computer science or systems analysis. We look forward to recruiting directly from a Valencia College's proposed bachelor degree program, as this will prove an ideal platform for providing highly skilled personnel.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Regards,

A handwritten signature in black ink, appearing to read "David H. Ugan".

David H. Ugan  
Vice President IT  
Foundation Partners Group  
daveugan@cfl.rr.com

**GG Other Service Area Employer Letters of Support:**

Chris Cucci, Senior Vice President, Center State Bank, N.A.



July 20, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

I would like to express my enthusiastic support of Valencia College in its pursuit of offering a baccalaureate degree in Software Development.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves the local business market in Central Florida and our workforce needs in Orange and Osceola counties.

As a bank, we are always working on better technology to support our business. This includes network administration, cybersecurity, software development, and more.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Best Regards,

A handwritten signature in blue ink, appearing to read "Chris Cucci".

Chris Cucci  
Senior VP  
CenterState Bank, N.A.

CenterStateBank.com

**HH Other Service Area Employer Letters of Support:**

Geoffrey S. Gallo, Senior Vice President, Marketing & Strategic Communications, Grennan Fender



August 21, 2018

Dr. Sanford Shugart  
President  
Valencia College  
1768 Park Center Drive  
Orlando, FL 32835

Dear Dr. Shugart:

Grennan Fender Hess & Pappas, LLP enthusiastically supports Valencia College in its pursuit of offering a baccalaureate degree in Software Development. With small and mid-sized companies through-out the Central Florida Region, we are frequently asked to assist our clients in multiple industries find and engage talent who have education, skills and experience in technology and programming. With the Florida economy hitting on all cylinders, many of these same clients and prospective clients are experiencing prolific growth and the need to systematize procedures and processes utilizing technology is paramount.

Valencia College has a long standing and remarkable track record of providing excellent education, training, and resources that positively affects and improves all industries that we serve in the Central Florida marketplace. These include Financial Services, Accounting, Entertainment, Hospitality, Construction, Manufacturing/Distribution, Healthcare and others. We and our clients are continuously in need of highly qualified and talented people with baccalaureate degrees as computer system managers and analysts, software developers, app developers, and mobile app developers. Grennan Fender and our clientele would look forward to recruiting directly from Valencia College's proposed bachelor degree program, as it will prove an ideal platform for providing highly skilled personnel. We are also interested in utilizing interns from this proposed program.

The availability of the proposed baccalaureate program will assist us in keeping our talent here locally for continued growth of our business and economy.

Sincerely,

Geoffrey S. Gallo, ChFC, CE: P  
Senior Vice President, Marketing and Strategic Consulting  
Co-Chair - CEO Leadership Forums  
E: ggallo@grennanfender.com

## II Email notification of UCF Discontinuation of BAS degree [in General Studies]:

Jeffrey Jones, Vice Provost – UCF Connect, University of Central Florida

**From:** Jeff Jones <[Jeff.Jones@ucf.edu](mailto:Jeff.Jones@ucf.edu)>

**Date:** Friday, April 14, 2017 at 5:23 PM

**To:** Susan Ledlow <[sledlow@valenciacollege.edu](mailto:sledlow@valenciacollege.edu)>, Laura Ross <[ross@seminolestate.edu](mailto:ross@seminolestate.edu)>, Linda Miedema <[miedemal@easternflorida.edu](mailto:miedemal@easternflorida.edu)>, Douglas Wymer <[WymerD@LSSC.EDU](mailto:WymerD@LSSC.EDU)>, Amy Locklear <[Amy.Locklear@daytonastate.edu](mailto:Amy.Locklear@daytonastate.edu)>, "Paugh, Mark" <[paughm@cf.edu](mailto:paughm@cf.edu)>

**Cc:** Elizabeth Dooley <[Elizabeth.Dooley@ucf.edu](mailto:Elizabeth.Dooley@ucf.edu)>, Pam Cavanaugh <[Pamela.Cavanaugh@ucf.edu](mailto:Pamela.Cavanaugh@ucf.edu)>, Jennifer Sumner <[Jennifer.Sumner@ucf.edu](mailto:Jennifer.Sumner@ucf.edu)>, Keisha Hoerrner <[Keisha.Hoerrner@ucf.edu](mailto:Keisha.Hoerrner@ucf.edu)>, Paige Borden <[Paige.Borden@ucf.edu](mailto:Paige.Borden@ucf.edu)>

**Subject:** Suspension of the BAS degree at UCF

Dear Colleagues:

Through a series of internal discussions among our academic leadership, UCF had determined that it will suspend the admission of students to the Bachelor of Applied Science degree tracks, effective Spring 2108.

As some of you may know, this degree and the tracks within were created to exclusively meet the needs of UCF Regional Campuses students, prior to our state college partners being enabled to offer selected workforce baccalaureate degrees. There are currently five (5) tracks in our BAS program: Criminal Justice, Legal Studies, Health Services Administration, Information Technology, and Software Development.

The first three of these degree tracks are served by existing bachelor's degree programs at UCF. The last two – IT and Software Development – are entirely online, and though reasonably well-enrolled, do not seem to be consistent with our longer-term core academic mission.

Of course, upon suspension of admission to these programs, UCF will continue to provide opportunities for admitted and enrolled students to complete their degrees.

If you have any questions about this decision, or the implications thereof, please don't hesitate to contact me.

Best regards,

Jeff

**J. Jeffrey Jones, Ph.D.**

Vice Provost  
University of Central Florida

12201 Research Parkway  
Suite 101  
Orlando, FL 32826

Office: 407.823.5333

[Jeff.Jones@ucf.edu](mailto:Jeff.Jones@ucf.edu)  
[ucf.edu](http://ucf.edu)

*Please note: Florida has a very broad open records law (F. S. 119). E-mails may be subject to public disclosure.*

**JJ Requested Memberships**

**Information Technology Industry Advisory Council**



<b>Council Member</b>	<b>Organization</b>	<b>Company Support Letter</b>
<b>Rosa Akhtarkhavari</b>	<b>City of Orlando</b>	<b>Page 54</b>
Michael Antonovich	MICMIN Associates	
Jeff Bittner	Walt Disney World Co.	
Doug Brown	IBM Software Group	
Stefanie Brown	Hudson IT	
Hamid Chefchaouni	Walt Disney World Co.	
<b>Joe Cosmano</b>	<b>iBoss</b>	<b>Page 44</b>
Shalyn Dever	Chatterbuzz Media	
Kevin Goddard	VieBridge	
Peter Lam	Central Florida Lumber And Supply, Co.	
<b>Declan Link</b>	<b>Link2Solutions LLC</b>	<b>Page 94</b>
Joseph Lukas	PM Centers	
Scott McPherson	Champion Solutions Group	
Jimm Middleton	Walt Disney World Co.	
Hugh Moore	Seminole State College	
Pablo More	Adventist Health	
Tony Morelli	Kissimmee Utility Authority	
Tim O'Toole	Reedy Creek Improvement District	
Jeho Park	Lockheed Martin	
Max Porges	Highwinds	
Lisa Rudisill	Lockheed Martin	
Adam Scheinberg	Massey Services, Inc.	
Ginese Smith	Red Lobster Seafood Co.	
Rex Smith	Red Lobster Seafood Co.	
Ron Stiles	National Center for Simulation	
Joan Stump	S3 Industry Corp, LLC	
Emily Sullivan	Deloitte Services LP	
<b>Doug Tran</b>	<b>Deloitte Consulting LLP</b>	<b>Page 30</b>
Michael van Zwieten	Florida League of Cities	
Frank Voehl	Harrington Group Software Company	
Thomas Bower	Transland, LLC	
Leah Borkan	Walt Disney Parks and Resorts	
Richard Kinas	Orlando Utilities Commission	
<b>James McQuiggan</b>	<b>Siemens Gamesa Renewable Energy</b>	<b>Page 47</b>
Brad Mundt	Center for Law Enforcement Technology	
Doug Rehman	Rehman Technology Services, Inc.	
Joel Schwalbe	CNK Financial Group, Inc.	
Jacob Pinder	TEKsystems	
Stacy Zapata	TEKsystems	
Carolyn Shermer	United Way	

**KK Requested Memberships**

**Energy Management and Controls Technology Industry Advisory Council**



First	Last	Organization Name	Company Support Letter
Josué	Adorno-Núñez	EMCOR Services MSI - Mechanical Services	
Michael	Alex	Universal Orlando Resort	
Aaron	Alfaro	Parker Hannifin	
Ivan	Aron	Siemens	
Kohnen	Barry	TLC Engineering for Architecture	
Robert	Boyatt	Systems Services, Inc.	
Nate	Boyd	Hanson Professional Services Inc.	
<b>Chris</b>	<b>Castro</b>	<b>City of Orlando</b>	<b>Page 55</b>
Vanessa	Castro	Derive Systems	
Troy	Clark	Orange County Public Schools, Energy Management	
Marc	Craddock	Siemens Industry Inc.	
Jeff	Daniels	Greater Orlando Aviation Authority	
Hugh	Fain	Siemens Industry Inc., Building Technologies Division	
Ben	Fitzgerald	Florida Hospital	
Jordan	Hall	Orlando Utilities Commission	
Rich	Hansen	MC2, Inc.	
Michael	Hartley	Matern Professional Engineering	
Jack	Lafferty	Automated Logic	
Chris	Lock	Siemens Industry Inc.	
Brian	Lovell	National Science Foundation	
Michael	Martin	Trane Commercial Systems	
Allen	Paul	Reedy Creek Energy Services	
Steve	Peters	Johnson Controls Orlando Office	
Stephen	Reece	Universal Orlando Resort	
Steve	Rybka	Belimo	
Kristine	Singley	Walt Disney World Resort	
<b>Paula</b>	<b>Stenzler</b>	<b>Universal Creative- Universal Parks and Resorts</b>	<b>Page 49</b>
Ryan	Strandquest	Matern Professional Engineering	
Brent	Waluzak	Siemens	
David	Ward	Kele, Inc.	
Brett	Weidl	Orange County Public Schools, Facilities Maintenance	

**LL Requested Memberships**

**Electronics Engineering Technology Industry Advisory Council**



<b>First</b>	<b>Last</b>	<b>Organization Name</b>	<b>Company Support Letter</b>
<b>Michael</b>	<b>Alex</b>	<b>Universal Orlando</b>	<b>Page 49</b>
Pamela	Armitage	Walt Disney Parks and Resorts	
Greg	Augustyniak	Coastal Technical Services	
Pamela	Caraballo	Siemens	
Robert	Carnegie	Lockheed Martin Corporation	
Jim	Carstensen	Alcorn McBride, Inc.	
Richard	Daniel		
Andrew	Duran	Infrared Systems Development	
Daniel	Eifert	Lockheed Martin	
Amy	Ice	Extant Aerospace	
Neil	Mattern	c/o Northrop Grumman Laser Systems	
Guy	Trapeni	Limbach Company	
John	Hanschu	Bright House Networks	
Dave	Poore	Extant Aerospace	
James	Lipscomb	L3 - Advanced Laser Systems Technology	
Jon	Lare	Extant Aerospace	
Stephen	Rocca	Lockheed Martin Missiles and Fire Control	
Arturo	Simmonds	Lockheed Martin Corporation	
Paula	Stenzler	Universal Orlando Resort	
Alexandre	Stimac	Manufacturing Association of Florida	
Anna	Tabirian	Beam Engineering for Advanced Measurements Co.	
Matt	Taylor	Mitsubishi Hitachi Power Systems	
Joe	Van Dam, P. E.	Walt Disney Parks and Resorts U.S.	
Ted	Vician	Northrop Grumman Laser Systems	
Earl	Walker	Siemens Energy, Inc.	
Michael	Wright, P.E.	Power Grid Engineering, LLC	

MM Requested Memberships



CEO Leadership Forums Sponsor Organizations	Company Support Letter
Action Coach Team Sage	
ADP	
Apple One	
ARX Payment Services	
Capstone Commercial of Brevard	
<b>Centerstate Bank</b>	<b>Page 100</b>
CEO Nexus	
City National Bank	
City National Capital Finance	
Fringe Benefit Plans	
<b>Grennan Fender</b>	<b>Page 101</b>
<b>MasterBase</b>	<b>Page 81</b>
Morse Agency	
Nperspective	
Piekarski Consulting	
Raymond James Orlando	
RJD Risk Management	
Sandler Training	
Skolnik Strategic Partners	
South Florida Business & Wealth	
Swann Hadley	
Synergy Wealth Alliance	
<b>VALINTRY</b>	<b>Page 92</b>
Watson Sloane & Johnson	

**Note:** Valencia College is also a sponsor organization

## NN Requested Memberships

### Direct Connect Workforce Team

<i>Member</i>	<i>Title</i>	<i>Institution</i>
<i>Sean Armstrong</i>	<i>Director of Partnerships</i>	<i>UCF *</i>
<i>Robert Wolf</i>	<i>Dean, Business, Technology and Career &amp; Tech. Education</i>	<i>College of Central Florida</i>
<i>Sherryl D. Weems</i>	<i>AVP, School of Workforce Training</i>	<i>Daytona State College</i>
<i>Frank Margiotta</i>	<i>Executive Director of Technical and Professional Training</i>	<i>Eastern Florida State College</i>
<i>Eugene Jones</i> <small><i>(replaced by Amy Levine- Albee)</i></small>	<i>Dean of Workforce Development</i>	<i>Lake Sumter State College</i>
<i>Cheryl Cicotti</i>	<i>AVP, School of Career and Professional Programs</i>	<i>Seminole State College</i>
<i>Nasser Hedayat</i>	<i>AVP, Career &amp; Workforce Education</i>	<i>Valencia College</i>

\* UCF Letter(s) of Support: Page 82 (Jeffrey Jones, Vice-Provost; Page 85 (Dale Whittaker, President)

OO Requested Memberships

**DirectConnect Consortium Academic Coordination Committee (CACC) Team**

Name	Institution	Institution's Letter(s) of Support
<b>Jeffrey Jones</b>	<b>UCF</b>	<b>Page 82; Page 85 (UCF President's)</b>
<i>Mark Paugh, Vice President of Academic Affairs</i>	<i>College of Central Florida</i>	
<i>Robert Wolf Dean, Business, Technology/Career &amp; Tech. Ed.</i>	<i>College of Central Florida</i>	
<i>Amy Locklear VP, Academic Affairs</i>	<i>Daytona State College</i>	
<i>Sherryl D. Weems Associate Vice President</i>	<i>Daytona State College</i>	
<i>Linda Miedema VP, Academic &amp; Student Affairs/CLO</i>	<i>Eastern State College</i>	
<i>Doug Wymer VP, Academic Affairs</i>	<i>Lake Sumter State College</i>	
<i>Eugene Jones Dean, Workforce Development (Amy Albee-Levine, new)</i>	<i>Lake Sumter State College</i>	
<i>Laura Ross VP, Academic Affairs</i>	<i>Seminole State College of Florida</i>	
<i>Cheryl Cicotti AVP, Career &amp; Professional Programs</i>	<i>Seminole State College of Florida</i>	
<i>Nasser Hedayat AVP, Career &amp; Workforce Education</i>	<i>Valencia College</i>	
<i>Susan Ledlow [retired 7/18] VP for Academic Affairs (Joan Tiller, Interim VP)</i>	<i>Valencia College</i>	

# Objections or Alternative Proposals

## B.2

B.2 List any objections or alternative proposal received from other postsecondary institutions for this program.

*None*

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