



April 25, 2018

**TO:** THE DISTRICT BOARD OF TRUSTEES  
OF VALENCIA COLLEGE

**FROM:** SANFORD C. SHUGART  
President

**RE:** APROVAL OF NEW DEGREE PROGRAM: BACHELOR OF APPLIED SCIENCE IN  
SOFTWARE DEVELOPMENT

Valencia currently has three strong Associate of Science degree programs in the Information Technology career cluster with over 1,595 student majors who wish to continue their career path and higher employment opportunities in the area of Software Development.

Presently, there is a national (and regional) shortage of qualified software developers. For example, Central Florida's Region 12 now has an estimated 21,604 software developer related jobs currently filled. Economic projections predict 18% job growth in our region in the next eight years, just in the software developer occupation, translating to a projected increase of over 1,650 new and replacement jobs each year. (Source: Economic Opportunity Labor Market Information).

The College has both strong student interest in and strong documented industry support of a Valencia College program of study leading to a Bachelor of Applied Science in Software Development. The College received strong support from higher education institutions in our region and the College received no expressions of concern from any of these institutions following their receipt of the formal notification of Valencia's interest in offering this program of study.

**RECOMMENDED ACTION:**

The President recommends that the District Board of Trustees 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 of Applied Science in Software Development.

A handwritten signature in black ink that reads "Sanford C. Shugart". The signature is written in a cursive style and is positioned above a horizontal line.

Sanford C. Shugart  
President

VALENCIA COLLEGE

**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

## 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.

# 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

# 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 Computer Programming, CIT, Network Engineering & Articulated IT & AA pre-majors)
  - UCF: 184
  - ICUF: 12  
(B.A.S. Software Development)
- **Workforce Gap (Unmet Need):**
  - 8,616 (8 yrs.) 1,065 Per year

# SOFTWARE DEVELOPMENT JOBS

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

# 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%





# 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

# 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

# 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		\$4637.70
	24 cr. of lower level courses including 18 cr. of G.E	\$2,473.44
	36 credit hours of upper level courses	\$4,038.84
	Scholarships if eligible (11 Cr.)	(\$1,234.09)
<b>Total Student tuition cost</b>		<b>\$9,915.89</b>

# 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

**QUESTIONS?**