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Creating Futures*

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LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

TO: Dr. Monty Sullivan
LCTCS President

FROM: Dr. René Cintrón *rc*
Chief Academic Affairs Officer

SUBJECT: Program Revisions at Louisiana Delta Community College

DATE: 1/19/2018

FOR BOARD ACTION:

Recommendation: Staff recommends that the Board approve the program revisions listed below.

Program Modifications

1. Associate of Science (AS) in Computer Science (CIP 11.0701) – **5 STARS**
 - a. Certificate of Technical Studies (CTS) in Computer Science: Software Design change to CTS in Secure Software Design (CIP 11.0701) – **5 STARS**
2. Associate of Applied Science (AAS) in Cyber Technology: Computer Support change to A.A.S. Information Technology (CIP 11.0901) – **5 STARS**
 - a. Certificate of Technical Studies (CTS) in Cyber Technology: Computer Network Professional change to CTS in Systems and Network Administrator (CIP 11.0901) – **5 STARS**
 - b. Certificate of Technical Studies (CTS) in Cyber Technology: Computer Network Support Specialist change to CTS in Network and Security Analyst (CIP 11.0901) – **5 STARS**
 - c. Certificate of Technical Studies (CTS) in Cyber Technology: Computer User Support Specialist change to CTS in Client Implementation and Support Specialist (CIP 11.0901) – **5 STARS**

Program Additions

3. As part of the AAS in Information Technology and its corresponding CTS, the following new credentials are being requested:
 - a. Career and Technical Certificate (CTC) in Cisco Certified Network Associate with Industry Based Certification (IBC) of Cisco Certified Network Associate (CIP 11.0901) – **5 STARS**
 - b. Career and Technical Certificate (CTC) in Cisco Certified Network Professional with Industry Based Certification (IBC) of Cisco Certified Network Professional (CIP 11.0901) – **5 STARS**
 - c. Career and Technical Certificate (CTC) in Cybersecurity Specialist with Industry Based Certification (IBC) of CompTIA Security+ (CIP 11.0901) – **5 STARS**

- d. Career and Technical Certificate (CTC) in Cisco Cybersecurity Analyst with Industry Based Certification (IBC) of Cisco Certified Network Associate Security (CIP 11.0901) – **5 STARS**
- e. Career and Technical Certificate (CTC) in Computer Support Specialist with Industry Based Certification (IBC) of CompTIA A+ and Network+ (CIP 11.0901) – **5 STARS**
- f. Career and Technical Certificate (CTC) in Business Application & Desktop Support with Industry Based Certification (IBC) of CompTIA A+ and MOS Office 2016 Suite (CIP 11.0901) – **5 STARS**

Program Terminations

- 4. Technical Diploma (TD) in ICT: Computer/Networking Support (CIP 11.1001) – **4 STARS**
 - a. Certificate of Technical Studies (CTS) in ICT: Computer System Technician (CIP 11.1001) – **4 STARS**
 - b. Certificate of Technical Studies (CTS) in ICT: LAN Administrator (CIP 11.1001) – **4 STARS**
 - c. Certificate of Technical Studies (CTS) in ICT: Network Security Technician (CIP 11.1001) – **4 STARS**
- 5. Associate of Applied Science (AAS) in Computer Information Systems: Information Science (CIP 11.0401) – **5 STARS**
 - a. Certificate of Technical Studies (CTS) in Computer Information Systems: E-Commerce (CIP 11.0401) – **5 STARS**
 - b. Certificate of Technical Studies (CTS) in Computer Information Systems: Information Technology (CIP 11.0401) – **5 STARS**
 - c. Certificate of Technical Studies (CTS) in Computer Information Systems: Web Design (CIP 11.0401) – **5 STARS**
 - d. Associate of Applied Science (AAS) in Computer Information Systems: Cybersecurity (CIP 11.0401) – **5 STARS**
 - e. Certificate of Technical Studies (CTS) in Computer Information Systems: Information Assurance (CIP 11.0401) – **5 STARS**
 - f. Certificate of Technical Studies (CTS) in Computer Information Systems: Information Technology Security (CIP 11.0401) – **5 STARS**
 - i. Technical Competency Area (TCA) in Computer Information Systems: E-Commerce (CIP 11.0401) – **5 STARS**
 - ii. Technical Competency Area (TCA) in Computer Information Systems: Information Storage (CIP 11.0401) – **5 STARS**
 - iii. Technical Competency Area (TCA) in Computer Information Systems: Information Technology (CIP 11.0401) – **5 STARS**
 - iv. Technical Competency Area (TCA) in Computer Information Systems: Marketing and Social Media (CIP 11.0401) – **5 STARS**
 - v. Technical Competency Area (TCA) in Computer Information Systems: Project Management (CIP 11.0401) – **5 STARS**
 - vi. Technical Competency Area (TCA) in Computer Information Systems: Web Design (CIP 11.0401) – **5 STARS**
 - vii. Technical Competency Area (TCA) in Computer Information Systems: Cybersecurity (CIP 11.0401) – **5 STARS**

6. Associate of Applied Science (AAS) in Cyber Technology: Network Engineering (CIP 11.0901) – **5 STARS**
 - a. Certificate of Technical Studies (CTS) in Cyber Technology: Computer Technician (CIP 11.0901) – **5 STARS**
 - i. Technical Competency Area (TCA) in Cyber Technology: Computer Technician (CIP 11.0901) – **5 STARS**
 - ii. Technical Competency Area (TCA) in Cyber Technology: System Support Technician (CIP 11.0901) – **5 STARS**
 - iii. Technical Competency Area (TCA) in Cyber Technology: CISCO Certified Network Associate (CCNA) (CIP 11.0901) – **5 STARS**
 - iv. Technical Competency Area (TCA) in Cyber Technology: Information Storage (CIP 11.0901) – **5 STARS**
 - v. Technical Competency Area (TCA) in Cyber Technology: Wide Area Network Technician (CIP 11.0901) – **5 STARS**

Background: As part of curriculum realignment in partnership with industry, the Business and Technology division of Louisiana Delta Community College is requesting changes to its computer science programs.

The purpose of the Associate of Science Degree in Computer Sciences is to build the bridge between budding computer programmers and their futures, while earning an associate degree from which they may further their academic pursuits or opt to enter the workforce with a foundational skillset in logic and design. The Associate of Science degree in Computer Science allows students to transfer to computer science programs offered by a baccalaureate degree granting institution. This concentration will provide students with a foundation in computer programming and design.

The Associate of Applied Science degree in Information Technology congeals the industry standard A+, Network+, and Security+ credentials core with a necessary business component, while still allowing the student the flexibility to choose an area of interest through technology elective selections. The degree is streamlined to focus on foundational elements of IT while providing flexibility for students and program administrators to adapt and adjust as the industry need arises.

With the above additions and changes, other program offerings were terminated to better align with current industry demands including various TCA. The deletions include previously approved associate degree programs and certificates that will not be taught based on our most recent guidance. The longstanding AAS ICT program was cancelled due to low completion creating the need for its corresponding technical diplomas and certificates to be removed from program offerings in an effort to ensure clarity for students in the paths they wish to take as well as to better align with current industry and community demands.

Fiscal Impact: There are no anticipated expenditures associated with the modifications of these programs since faculty is in place.

History of Prior Actions: There is a history of revising programs to meet student and workforce needs.

Benefits to the System: The revisions will allow LDCC to better meet student and workforce needs in other areas.



Approved for Recommendation to the Board
Dr. Monty Sullivan

Date



School of BUSINESS and TECHNOLOGY

Physical Address: 7500 Millhaven Rd., Monroe, LA 71203
Phone: (318) 345-9000
www.ladelta.edu

January 17, 2018

LCTCS Board of Supervisors,

The School of Business and Technology at Louisiana Delta Community College respectfully submits requests for changes to the prior approved computer technology programs based on requests for changes by the Louisiana Board of Regents. We have streamlined our previously proposed programs and have trimmed the total number of associate degree offerings to two manageable curriculums: AAS in Information Technology and AS in Computer Science. We have also restructured what were previously TCAs to CTCs, further bolstering the completion recognition by the Board of Regents. Both degrees and corresponding certificates fulfill another request of the Board of Regents for transferability as well as workforce training/job readiness.

The deletions include previously approved associate degree programs and certificates that will not be taught based on our most recent guidance, but also a longstanding AAS ICT program that was cancelled at the state level due to low completion rates. The AAS ICT program was also technical/terminal degree which was contrary to the direction encouraged by our academic superiors. The AAS ICT as well as the related technical diplomas and certificates are being removed from our canon of degree offerings in an effort to ensure clarity for students in the paths they wish to take.

Thank you for your consideration in approving these changes to our curriculum and your encouragement for our institution to grow and succeed.

A handwritten signature in black ink that reads "Ryan Pierce" followed by the date "1/17/18".

Ryan Pierce
Division Chair | Business and Technology
Louisiana Delta Community College
318.345.9223 (office)
318.202.9301 (cell)
rpierce@ladelta.edu (email)

Bastrop • Jonesboro • Lake Providence • Monroe • Ruston • Tallulah • West Monroe • Winnsboro

Member of the Louisiana Community and Technical College System

Louisiana Board of Regents

AA 2.05: REQUEST FOR AUTHORITY TO OFFER A NEW DEGREE PROGRAM*

-- Including incremental credentials building up to the Degree --

** Prior to final action by the Board of Regents, no institution may initiate or publicize a new program. **

Date:

| | |
|--|--|
| Institution: Louisiana Delta Community College | Requested <u>CIP, Designation, Subject/Title:</u> CIP: 110901 A.A.S. Information Technology C.T.S. Systems and Network Administrator C.T.S. Network and Security Analyst C.T.S. Client Implementation and Support Specialist C.T.C. Cisco Certified Network Associate C.T.C. Cisco Certified Network Professional C.T.C. Cybersecurity Specialist C.T.C. Cisco Cybersecurity Analyst C.T.C. Computer Support Specialist C.T.C. Business Application & Desktop Support |
| Contact Person & Contact Info Ryan Pierce Division Chair School of Business and Technology Louisiana Delta Community College 7500 Millhaven Rd. Monroe, LA 71203 Phone: 318-345-9223 Email: rpierce@ladelta.edu | |
| Date Letter of Intent was approved by Board of Regents: N/A | |
| Date this Proposal was approved by Governing Board: | |
| Planned Semester/Term & Year to Begin Offering Program: Spring 2018 | |

1. Program Description

Describe the program concept: (a) purpose and objectives; (b) mode of delivery (on-site/hybrid/on-line). Describe plan for developing and rolling out new courses.

As human existence increasingly relies on a digital infrastructure to support everything from basic needs to superfluous dreams, opportunistic individuals seeking to capitalize on market shifts demand educational alternatives in preparation for meeting ever changing employment possibilities. Bringing learners from IT infancy to cyber relevance to meet this moving target and provide for its workforce while concurrently providing a pathway to academic transferability is the mission of the Associate of Applied Science in Information Technology.

Rooted in the colloquial "Holy Trinity" of vendor neutral IT Certifications, the AAS in Information Technology congeals the industry standard A+, Network+, and Security+ credentials core with a necessary business component, while still allowing the student the flexibility to choose an area of interest through technology elective selections.

The goals of the Computer Technology program are:

- To offer academically transferable courses to four-year colleges and universities in hardware and software troubleshooting and support, networking, security, server architecture, and other related information technology disciplines
- To prepare the student with the foundation required for success in any Information Technology career
- To collaborate with area businesses and industry to meet training needs as well as provide a platform for industry stakeholders to take part in the shaping and education of the future workforce

- To incorporate innovative teaching competencies and programs leading to the associate degree in Information Technology or related certificate program/specialized career training initiative
- To present opportunities for the Computer Technology students to participate in relevant student organizations, community events, and interaction with the Information Technology community
- To incorporate fundamental business principles such as communication and customer service skills as requested by the esteemed members of the advisory board

The Associate of Applied Science degree in Information Technology combines English, math, social science, natural science, and humanities with business and computer courses to create a program designed to meet the increasing demand for entry-level Information Technology professionals. Further, a significant portion of the coursework is transferable for those students wishing to complete a bachelor's degree. Currently, we are in talks with Northwestern State University regarding an MOU to encourage our students to matriculate into their established Computer Information Systems program. The program is also designed to help students prepare for and successfully complete several internationally recognized, industry-based certifications inclusive of but not limited to certifications offered by CompTIA, Microsoft, Cisco, and LPI .

Graduates of the Louisiana Delta Community College Information Technology program will be able to:

- Demonstrate hands-on technical knowledge and skills in the use of computer hardware, software, networking, and security
- Successfully complete industry-based certifications associated with their course of study
- Critically read and interpret technical literature
- Communicate using both verbal and written communication to accurately convey technical information
- Utilize proper listening skills and customer service technique to resolve client issues

From computer troubleshooting and support to securing enterprise networks through proper monitoring and threat detection, the Associate of Applied Science in Information Technology will provide the proper training for the needs of the present and future information technology workforce.

The degree is streamlined to focus on foundational elements of IT while providing flexibility for students and program administrators to adapt and adjust as the industry need arises. Course offerings include on-site (day/night) offerings as well as some online offerings where suitable.

Program Options:

AAS – Information Technology

CTS – Certificate Programs

Systems and Network Administrator
 Network and Security Analyst
 Client Implementation and Support Specialist

CTC – Career and Technical Certificates

Cisco Certified Network Associate
 Cisco Certified Network Professional
 Cybersecurity Specialist
 Cisco Cybersecurity Analyst
 Desktop Support
 Client Support

Associate of Applied Science in Information Technology

AAS Information Technology Core Courses – 21 hours

| | |
|----------|-------------------------------------|
| CINS 102 | Internet & Computer Literacy (IC3)* |
| CNET 101 | User Support I (A+)* |
| CNET 102 | User Support II (A+)* |
| CNET 110 | Network Fundamentals I (Network+)* |
| CNET 111 | Network Fundamentals II (Network+)* |
| CINS 130 | Information Security Fundamentals |
| CINS 220 | System Security (Security+)* |

Business Core – 9 hours

| | |
|-------------------|---|
| BUSN 101 | Introduction to Business |
| BUSN 130 | Customer Service for Business Professionals* |
| BUSN 215/SPCM 120 | Business Communications/Introduction to Public Speaking |

General Education Core – 15 hours

| | |
|--------------------------|--------------------------------------|
| ENGL 101 | English Composition I |
| MATH 110 | College Algebra |
| PSYC 201/SOCL 201 | Introduction to Psychology/Sociology |
| Natural Science Elective | |
| History Elective | |

Information Technology and Computer Science Electives – 15 hours

*The student can choose from any of the following based on availability/demand
New elective course options may be created/included based on industry needs*

*Certification Exam Prep Included

+Denotes annually offered elective

| | |
|----------|--|
| CINS 120 | Operating Systems Fundamentals I** |
| CNET 201 | Windows Server I** |
| CNET 202 | Windows Server II** |
| CNET 203 | Windows Server III** |
| CNET 121 | Cisco Networking I - Cisco Network Principles (CCENT)** |
| CNET 122 | Cisco Networking II - Switching & Routing (CCNA)** |
| CNET 123 | Cisco Networking III - Implementing Cisco IP Routing (CCNP)* |
| CNET 124 | Cisco Networking IV - Implementing Cisco IP Switched Networks (CCNP)* |
| CNET 125 | Cisco Networking V - Troubleshooting and Maintaining Cisco IP Networks (CCNP)* |
| CNET 135 | Cisco Network Security (CCNA Security)* |
| CNET 171 | Linux Essentials** |
| CNET 172 | Linux Server (Linux+)** |
| CINS 210 | Cloud Computing (Cloud+)** |
| CSCI 240 | Project Management (Project+)** |
| CNET 225 | Firewalls and Network Security (CSA+)* |
| CNET 254 | Ethical Hacking* |
| CNET 295 | Internship* |
| CSCI 285 | Information Technology Ethics* |
| CSCI 192 | Programming Logic & Design* |
| CSCI 200 | Software Design & Programming I* |
| CSCI 203 | Software Design & Programming II* |

Map out the proposed curriculum, in sequence, identifying any incremental credentials and/or concentrations within the degree. Indicate which courses will be new, including those that would be offered in the new program as electives. Describe any special requirements (e.g., internships, comprehensive exam, thesis, etc.).

Associate of Applied Science in Information Technology

FIRST SEMESTER

| | |
|--|-----------|
| CINS 102 – Computer & Internet Literacy* | 3 |
| CNET 101 – Computer User Support I* | 3 |
| CNET 110 – Networking Fundamentals I* | 3 |
| CNET, CSCI, or CINS Elective | 3 |
| ENGL 101 – English Composition I | 3 |
| Semester Total | 15 |

SECOND SEMESTER

| | |
|--|-----------|
| BUSN 101 – Introduction To Business | 3 |
| CNET 102 – Computer User Support II* | 3 |
| CNET 111 – Networking Fundamentals II* | 3 |
| PSYC 201/SOCL 201 | 3 |
| MATH 110 – College Algebra | 3 |
| Semester Total | 15 |

THIRD SEMESTER

| | |
|---|-----------|
| BUSN 130 – Customer Service for Business Professionals* | 3 |
| CINS 130 – Information Security Fundamentals | 3 |
| CNET, CSCI, or CINS Elective | 3 |
| CNET, CSCI, or CINS Elective | 3 |
| History Elective | 3 |
| Semester Total | 15 |

FOURTH SEMESTER

| | |
|--------------------------------------|-----------|
| BUSN 215 – Business Communications | 3 |
| CINS 220 – System Security* | 3 |
| CNET, CSCI, or CINS Elective | 3 |
| CNET, CSCI, or CINS Elective | 3 |
| PHSC 100 or Natural Science Elective | 3 |
| Semester Total | 15 |

TOTAL HOURS 60

Certificate Programs for

Information Technology Professionals

There are many Computer Technology professionals in the workplace that desire courses to update their skillsets and certifications. The following three CTSs were designed with these professionals in mind. In some, a prerequisite class was not included in the set of required classes. The prerequisite class will need to be taken or competency demonstrated before enrolling in a class that requires a prerequisite.

*Certification Exam Prep Included

CTS Systems and Network Administrator

| | | |
|--------------------|--------------------------------------|-----------|
| CINS 102 | Internet & Computer Literacy (IC3)* | 3 |
| CNET 110 | Network Fundamentals I (Network+)* | 3 |
| CNET 111 | Network Fundamentals II (Network +)* | 3 |
| CNET 171 | Linux Essentials* | 3 |
| CNET 172 | Linux Server (Linux+)* | 3 |
| CNET 201 | Windows Server I * | 3 |
| CNET 202 | Windows Server II* | 3 |
| CNET 203 | Windows Server III* | 3 |
| Total Hours | | 24 |

CTS Network and Security Analyst

| | | |
|--------------------|--|-----------|
| CNET 110 | Network Fundamentals I (Network +)* | 3 |
| CNET 111 | Network Fundamentals II (Network +)* | 3 |
| CNET 121 | Cisco Networking I - Cisco Network Principles (CCENT)* | 3 |
| CNET 122 | Cisco Networking II - Switching & Routing (CCNA)* | 3 |
| CINS 210 | Cloud Computing* | 3 |
| CINS 130 | Information Security Fundamentals | 3 |
| CINS 220 | System Security (Security+)* | 3 |
| CNET 225 | Firewalls and Network Security (CSA+)* | 3 |
| Total Hours | | 24 |

CTS Client Implementation and Support Specialist

| | | |
|--------------------|--|-----------|
| CINS 102 | Internet & Computer Literacy (IC3)* | 3 |
| CNET 101 | User Support I (A+)* | 3 |
| CNET 102 | User Support II (A+)* | 3 |
| CINS 120 | Operating Systems Fundamentals I* | 3 |
| CINS 130 | Information Security Fundamentals | 3 |
| CSCI 240 | Project Management (Project+)* | 3 |
| CSCI 285 | Information Technology Ethics | 3 |
| BUSN 130 | Customer Service for Business Professionals* | 3 |
| Total Hours | | 24 |

Career and Technical Certificates (CTC) Information Technology

In some, a prerequisite class was not included in the set of required classes. The prerequisite class will need to be taken or competency demonstrated before enrolling in a class that requires a prerequisite.

CTC Cisco Certified Network Associate

| | | |
|--------------------|--|-----------|
| CNET 110 | Network Fundamentals I (Network +)* | 3 |
| CNET 111 | Network Fundamentals II (Network +)* | 3 |
| CNET 121 | Cisco Networking I - Cisco Network Principles (CCENT)* | 3 |
| CNET 122 | Cisco Networking II - Switching & Routing (CCNA)* | 3 |
| Total Hours | | 12 |

CTC Cisco Certified Network Professional

| | | |
|--------------------|--|-----------|
| CNET 121 | Cisco Networking I - Cisco Network Principles (CCENT)* | 3 |
| CNET 122 | Cisco Networking II - Switching & Routing (CCNA)* | 3 |
| CNET 123 | Cisco Networking III - Implementing Cisco IP Routing (CCNP)* | 3 |
| CNET 124 | Cisco Networking IV - Implementing Cisco IP Switched Networks (CCNP)* | 3 |
| CNET 125 | Cisco Networking V - Troubleshooting and Maintaining Cisco IP Networks (CCNP)* | 3 |
| Total Hours | | 15 |

CTC Cybersecurity Specialist

| | | |
|--------------------|--------------------------------------|-----------|
| CNET 110 | Network Fundamentals I (Network +)* | 3 |
| CNET 111 | Network Fundamentals II (Network +)* | 3 |
| CINS 130 | Information Security Fundamentals | 3 |
| CINS 220 | System Security (Security+)* | 3 |
| Total Hours | | 12 |

CTC Cisco Cybersecurity Analyst

| | | |
|--------------------|--|-----------|
| CNET 121 | Cisco Networking I - Cisco Network Principles (CCENT)* | 3 |
| CNET 122 | Cisco Networking II - Switching & Routing (CCNA)* | 3 |
| CINS 220 | System Security (Security+)* | 3 |
| CNET 135 | Cisco Network Security (CCNA Security)* | 3 |
| Total Hours | | 12 |

CTC Computer Support Specialist

| | | |
|--------------------|--|-----------|
| CNET 101 | User Support I (A+)* | 3 |
| CNET 102 | User Support II (A+)* | 3 |
| CNET 110 | Network Fundamentals I (Network +)* | 3 |
| CNET 111 | Network Fundamentals II (Network +)* | 3 |
| CINS 120 | Operating Systems Fundamentals I* | 3 |
| BUSN 130 | Customer Service for Business Professionals* | 3 |
| Total Hours | | 18 |

CTC Business Application & Desktop Support

| | | |
|--------------------|----------------------------|-----------|
| CNET 101 | User Support I (A+)* | 3 |
| CNET 102 | User Support II (A+)* | 3 |
| CINS 202 | Presentation Applications* | 3 |
| CINS 203 | Spreadsheet Applications* | 3 |
| CINS 204 | Word Processing* | 3 |
| CINS 205 | Database Applications* | 3 |
| Total Hours | | 18 |

2. Need

Outline how this program is deemed essential for the wellbeing of the state, region, or academy (e.g., how is it relevant, how does it contribute to economic development or relate to current/evolving needs).

In the next five years, Louisiana will have the opportunity to employ tens of thousands of people in new well-paying jobs. This comes as a result of new companies growing their operations and relocating to the state, making investments of over \$60 billion in Louisiana.

Specific to the region, Northeast Louisiana has seen significant investments by multinational telecommunications and technology companies over the past few years including CenturyLink and IBM. Other investors and stakeholders in the area include Graphic Packaging, Vantage Health, and St. Francis Medical. These companies continue to contribute to the regional economy by providing goods and services as well as creating employment opportunities. Louisiana Delta Community College understands its charge as an institution of higher learning and stands ready to provide timely training for the shortage of skilled workers to support corporate IT infrastructure growth.

Describe how the program will further the mission of the institution.

According to Louisiana 2020, approximately 20,000 students earned a college credential from a Louisiana community or technical college in 2014. The demands of our economy require that we do more. To meet this demand Louisiana's community and technical colleges will graduate 40,000 students per year by 2020 with a focus on credentials aligned to fields with the greatest demand. This goal will require Louisiana's community and technical colleges to partner with employers across the state and continuously customize academic and training offerings to match the high value jobs available in each region. Offering credentials that deliver outstanding value to students and employers is the key to doubling the annual number of graduates.

According to the Louisiana Workforce Commission, careers in computer and information technology disciplines will be of high demand through the year 2024 in the Region Area 8 labor market. These are 3 – 5 star positions with a pay range from \$34,496 - \$88,048 with a growth rate of approximately 40%.

Identify similar programs in the state and explain why the proposed one is needed: present an argument for a new or additional program of this type and how it will be distinct from existing offerings.

Louisiana Delta Community College is the only community college located in Northeast Louisiana and as such would be the only institution granting an Associate of Applied Science in Information Technology degree which would allow LDCC to be a conduit to pipe quality graduates into the Computer Science and Computer Information Systems programs of the University of Louisiana at Monroe, Louisiana Tech University, Grambling State University and Northwestern State University.

The skills and certifications acquired in completing the Associate of Applied Science Degree in Information Technology would also prepare students to go directly into the job market. IBM, CenturyLink, and the State of Louisiana have partnered to create 400 jobs in Monroe, LA over the next 10 years generating many opportunities for graduates in the information technology arena.

If approved, will the program result in the termination or phasing out of existing programs? (Is it a replacement?) Explain.

The Associate of Applied Science in Information Technology degree is a new degree that is designed to prepare students with hands on technical training to allow them to step directly into a growing computer information job market in Northeast Louisiana. The degree will also allow students in North Louisiana to complete the first two years of an Information Technology degree at Louisiana Delta Community College and then take a good number of the credits to a four year university to complete a Bachelor of Applied Science degree in Computer Information Systems.

The Associate of Applied Science in Information Communication Technology (ICT) will be phased out allowing current students in the degree plan to complete the course of study if they desire. The ICT

program has been in place for many years, requiring 75 credits with only 15 being transferable credits, and 26 elective credits. Currently, the program has a very low completion rate. The updated and streamlined offering proposed in this document will better meet the needs of students and industry in Northeast Louisiana.

If a Graduate program, cite any pertinent studies or national/state trends indicating need for more graduates in the field. Address possibilities for cooperative programs or collaboration with other institution(s).

N/A

3. Students

Describe evidence of student interest. Project the source of students (e.g., from existing programs, or the prospects of students being recruited specifically for this program who might not otherwise be attracted to the institution).

With 15 new students enrolled this fall in our entry level user support class and 5 returning from last semester to continue their IT pursuits, it is evident that as students begin to learn about the opportunities they have to compete in the workforce, these individuals will continue to seek LDCC as a necessary resource to aid in their IT employment endeavors. Even more, students are already seeking out Delta to fulfill these needs and we have yet to publicly promote the program. The current class offerings have been enough to entice students. We know this program will continue to grow with the blessing of the Board of Regents.

Our advisory committee has also met and industry leaders from the community concur. They have expressed the need for a pool of potential employees that possess the skills taught in this proposed program.

We plan to promote the program to middle and high school students at our annual Technology Fair and Destination Delta events and to the General Public at our annual Discover Delta event. Pamphlets and other promotional literature will be produced and distributed at these events. Program videos and social media campaigns are also in the works. The market is wide open and includes nontraditional students along with those currently employed but seeking to add to their skill set.

Project enrollment and productivity for the first 5 years, and explain/justify the projections.

As stated above, the proposed program currently has approximately 20 students taking classes that would count toward the AAS degree in Information Technology. Based on expressed interest of local industry and potential students the projected sustained enrollment for the first full year is 15 students, increasing at a clip of 20% through the first five years with a completion rate of 60%.

Provide enrollment/completer data for closely related programs currently offered at the institution.

None offered

What preparation will be necessary for students to enter the program?

Louisiana Delta Community College is an open admissions institution. Classes will be available to anyone that meets the basic admissions requirements (vaccination records, selective service, etc). Remediation classes in Math and English may be necessary in some cases and will be determined based on each student's scores for Math and English on either the ACT, Compass, or AccuPlacer Exams.

If a Graduate program, indicate & discuss sources of financial support for students in the program.

N/A

4. Faculty

List present faculty members who will be most directly involved in the proposed program: name, present rank; degrees; courses taught; other assignments.

Penny Warner, Instructor
Bachelor of Science in Home Economics Education, MEd --Masters in Secondary Education with a minor in Computer Science (18 graduate hours in Computer Science)
Currently teaches CNET and CINS courses

Ryan Pierce, Division Chair/Instructor
Bachelor of Science Computer Information Systems, Master of Science Information Systems and eCommerce
Currently teaches CNET and CINS classes

Gary Kleinpeter, Adjunct Instructor
Bachelor of Science in Math Education, Master of Religious Education, Master of Science in Computer Science
Currently teaches CINS courses

Joseph Kwashnak, Instructor
Bachelor of Arts International Relations & History, Master of Business Administration, Master of Science Management Information
Currently teaches BUSN and CINS courses

Natalie Campbell, Assistant Professor
Bachelor of Science in Computer Science, Master of Business Administration,
Doctor of Philosophy Instructional Systems & Workforce Development -Information Technology
Natalie currently plays a coordinating role in the CINS and CSCI curriculum

Amy Jo Jones, Adjunct Instructor
Bachelor of Science Electrical Engineering, Master of Science Electrical Engineering
Cisco Certification
Currently teaching in the ICT program

Project the number of new faculty members needed to initiate the program for each of the first five years. If it will be absorbed in whole or part by current faculty, explain how this will be done. Explain any special needs.

It is anticipated that one new CNET/IT faculty member would be needed to develop and teach the new course offerings in the proposed curriculum by the year 2020. This full-time instructor would also have the opportunity to serve a lead instructor for the program. We would present the classes face-to-face, online, and via compressed video in order to offer the program on all of our community college campuses. As we approach the five year mark, we anticipate the need to bring another full-time faculty member on board.

Adjunct faculty are available should the need arise.

Describe involvement of faculty – present and projected – in research, extension, and other activities and the relationship of these activities to teaching load. For proposed new faculty, describe qualifications and/or strengths needed.

New Faculty Requirements – Master degree with at least 18 graduate hours in Computer Science or Computer Information Systems, Network Engineering, or closely related area. Minimum of 3 years work (teaching or industry) experience preferred. Cisco certification preferred.

5. Library and Other Special Resources

Are present library holdings in related fields adequate to initiate the program? To meet program needs in the first 5 years, what will be needed? Do other institutions have library resources available to faculty & students for the proposed program?

The library's present holdings are adequate. The information technology field changes so rapidly that most

information resources will be accessed using the Internet and World Wide Web. The LDCC library has access to the major databases such as LOUIS to give students access to required material. The University of Louisiana at Monroe has both a Computer Science and a Computer Information Systems program and our students would have access to their library as well.

Indicate/estimate total expenditure for the last two fiscal years in library acquisitions for fields or departments offering or related to the proposed program.

\$101,967.00 – LOUIS Database

Project library expenditures needed for the first 5 years of the program.

\$150,000

What additional special resources, other than library holdings, will be needed?

None

6. Facilities and Equipment

Describe *existing* facilities (classrooms, labs, offices, etc) available for the program. Describe present utilization of these facilities that are assigned to the sponsoring department.

Our department currently has two computer labs in which classes are scheduled. These two labs have 26 and 26 computer stations respectively. A third lab that has 40 stations and is part of our College (Liberal Arts and Business) will be utilized and upgraded for the program. These three labs would give us adequate classroom space for the proposed program. Community campuses such as Winnsboro, Tallulah, Ruston, West Monroe, and Bastrop all have computer labs that could be utilized for Information Technology classes.

Describe the need for new facilities (e.g., special buildings, labs, remodeling, construction, equipment), and estimate the cost, proposed sources of funding, and estimated availability for program delivery.

On the Monroe campus, two of the three labs have recently been updated with new computers. The estimated cost of updating the third lab is \$24,000. These funds have been requested from the Carl Perkins grant. New computers for the Winnsboro lab have also been requested from the Carl Perkins grant at a cost of \$14,000. The lab in West Monroe has recently been updated with new computers.

7. Administration

In what department, division, school, college, or center/institute will the proposed program be administered? How will the new program affect the present administrative structure of the institution?

The proposed program will be in the School of Business & Technology, under the administration of the Division Chair of the school of Business & Technology. Depending upon the rate of growth of the program, there may be a need for additional coordinator and/or program director roles for specific areas of the proposed program such as cybersecurity, networking, and server and user support.

Describe departmental strengths and/or weaknesses and how the proposed program will affect them.

We currently have six instructors that are credentialed to teach CINS classes. Three of the six have Computer Science teaching experience at the university level, and one has private sector IT industry experience. The weakness is that as we pull these instructors to teach Computer Science/Computer Information System/Cyber Technology classes, we will create a need for new instructors to teach the cross discipline and high demand sections of Intro to Computers as well as the MS Office Suite of courses.

8. Accreditation

Describe plan for achieving *program* accreditation, including: name of accrediting agency, basic requirements for accreditation, how the criteria will be achieved, and projected accreditation date.

Only SACSCOC approval is required beyond Board of Regents approval. Upon BOR approval, the appropriate paperwork will be submitted to SACSCOC.

If a graduate program, describe the use of consultants in developing the proposal, and include a copy of the consultant's report as an appendix.

N/A

9. Related Fields

Indicate subject matter fields at the institution which are related to, or will support, the proposed program; describe the relationship.

The fifteen General Education credits required for the Associate degree are already being offered at Louisiana Delta Community College so there would not be a need to offer new General Education classes for the proposed degree. The program will also utilize CINS classes and 3 BUSN classes taught in the Associate of Applied Science Business & Technology degree. CSCI classes from the AS Computer Science degree will also be utilized to allow for cross-discipline studies.

10. Cost & Revenue

Summarize additional costs to offer the program, e.g., additional funds for research needed to support the program; additional faculty, administrative support, and/or travel; student support. How will the program affect the allocation of departmental funds?

The largest expenditure would be for one additional faculty member. One additional faculty will be required at an estimated cost of \$53,900 (includes benefits) annually. However, that faculty line item will be added once the program grows to a level that would require and support said faculty, projected for the year 2020. A request will be made that the new instructor be paid for the first three years through Carl D. Perkins Grant funds. Should the program expand beyond predicted numbers, adjunct faculty will be acquired at \$600/credit hour.

In an ideal world, updated computer labs would be nice to have but are currently unnecessary given the infancy of the program and satisfactory computing resources. The cost to update one computer lab is approximately \$24,000, yet these funds would come from Carl Perkins Grant initiatives and would not directly impact the bottom line of LDCC.

No additional funds are anticipated to be needed for research to support the program.

No additional costs will be associated with administrative support, travel, or student support as these areas are already allocated within the department and will be adequate for the proposed program.


*On the separate budget form, estimate new costs and revenues for the projected program for the first four years, indicating need for additional appropriations or investment by the institution.

Outside of revenue from tuition & fees, explain and justify any additional anticipated sources of funds, e.g., grants (in hand, promised, or in competition), institutional funds, etc.


We anticipate generous support from our business and industry partners in the region through donations of equipment, supplies, and funding for scholarships and endowments.

Rapid Response funds and Carl D. Perkins grant resources will also be utilized to responsibly add equipment and supplies when needed.


CERTIFICATIONS:



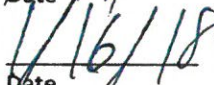
Primary Administrator for Proposed Program



Date



Provost/Chief Academic Officer



Date

Management Board/System Office

Date

SUMMARY OF ESTIMATED ADDITIONAL COSTS/INCOME FOR PROPOSED PROGRAM

Institution: Louisiana Delta Community College Date: Jan 17, 2018

Degree Program, Unit: Associate of Applied Science in Information Technology

FTE = Full Time Equivalent (use the institution's standard definition and provide that definition).

| EXPENDITURES | | | | | | | | |
|------------------------------|----------------------|-----|-------------------------|-----|----------------------|-----|-------------------------|-----|
| INDICATE ACADEMIC YEAR: | FIRST FY 2018 | | SECOND FY 2019 | | THIRD FY 2020 | | FOURTH FY 2021 | |
| | AMOUNT | FTE | Amount | FTE | AMOUNT | FTE | AMOUNT | FTE |
| Faculty | \$0.00 | | \$0.00 | | \$53,900 | 1.0 | \$53,900 | 1.0 |
| Graduate Assistants | | | | | | | | |
| Support Personnel | | | | | | | | |
| Fellowships and Scholarships | | | | | | | | |
| SUB-TOTAL | \$0.00 | | \$0.00 | 1.0 | \$53,900 | 1.0 | \$53,900 | 1.0 |
| | | | | | | | | |
| | AMOUNT | | AMOUNT | | AMOUNT | | AMOUNT | |
| Facilities | \$0.00 | | \$0.00 | | \$0.00 | | \$0.00 | |
| Equipment | | | | | | | | |
| Travel | | | | | | | | |
| Supplies | \$1,500 | | \$1,500 | | \$1,500 | | \$1,500 | |
| SUB-TOTAL | \$1,500 | | \$1,500 | | \$1,500 | | \$1,500 | |
| TOTAL EXPENSES | \$1,500 | | \$1,500 | | \$55,400 | | \$55,400 | |
| REVENUES | | | | | | | | |
| Revenue Anticipated From: | AMOUNT | | AMOUNT | | AMOUNT | | AMOUNT | |
| *State Appropriations | \$ | | \$ | | \$ | | \$ | |
| *Federal Grants/Contracts | | | \$24,000 (Carl Perkins) | | | | \$24,000 (Carl Perkins) | |
| *State Grants/Contracts | Will apply as needed | | Will apply as needed | | Will apply as needed | | Will apply as needed | |
| *Private Grants/Contracts | | | | | | | | |
| Expected Enrollment | 15 | | 20 | | 25 | | 30 | |
| Tuition & Fees | \$30,592.80 | | \$40,790.40 | | \$50,988.00 | | \$61,185.60 | |
| *Other (specify) | | | | | | | | |
| TOTAL REVENUES | \$30,592.80 | | \$40,790.40 | | \$50,988.00 | | \$61,185.60 | |

* Describe/explain expected sources of funds in proposal text.

LA Board of Regents
NOTES for PROGRAM PROPOSALS (AA Policy 2.05)
(Please do not include this page with proposal submission.)

Neither a new program nor elimination/major revision of an existing program can be publicized or implemented prior to approval by the Board of Regents. A new program is a new Major which leads to a certificate or degree at a level or in a field not heretofore offered by the institution. It may involve the addition of courses to an existing degree program (e.g., expansion of a concentration or minor), or it may consist entirely of existing courses packaged in a manner which constitutes a new major. Upon approval, it will be added to the Curriculum Inventory (CRIN)

To expedite review, institutions are urged to discuss planned curricular additions with Academic Affairs staff *prior* to completion of a Letter of Intent or program proposal.

PROPOSAL CONTENT

DESCRIPTION should include the purpose of the program as well as the curriculum plus any prerequisite courses. Identify any incremental credentials that might be incorporated within the curriculum, concentrations, and/or approved electives. A reader should be able to describe what the program will accomplish for the completer and how it will do it.

NEED/RELEVANCE is the argument for program approval. Address duplication or similarities with existing programs elsewhere, and explain why the proposed program is different and/or necessary.

STUDENTS should include a justification for projected enrollments and completers. If the new program is the expansion of an existing, successful concentration or minor, provide the existing curriculum and recent enrollment/completer data.

FACULTY should demonstrate preparation or a plan to offer the program, explaining how the program would be offered, whether/how existing faculty can absorb the new courses and students, and expected sources of additional faculty that would be needed.

LIBRARY, SPECIAL RESOURCES, FACILITIES & EQUIPMENT describe what will be needed and how & when the institution will acquire it. Costs for additional resources should be reflected in the budget.

ADMINISTRATION includes new directors and anticipated timing of the administrative additions or changes.

ACCREDITATION should address any impact on and plans to protect the institutions status with SACSCOC as well as any relevant program requirements or recommendations in AcAf 2.13. If the institution will seek new or expanded accreditation, include an anticipated schedule of actions to be taken.

RELATED FIELDS summarizes how the proposed program 'fits into' the institution's existing offerings and strengths.

COSTS & REVENUE (BUDGET) should include new/additional costs referenced in the preceding text to show what new commitments the program would bring to the institution and how they would be covered.

Factors that will be considered in assessing a proposed program include, but are not limited to the following:

- a. Relevance to the existing role, scope and mission of the institution;
- b. Contribution to the wellbeing of the state, region, or academy;
- c. Program duplication (existing/related programs at other institutions);
- d. Institutional commitment to appropriately fund proposed program.

Louisiana Board of Regents

AA 2.05: REQUEST FOR AUTHORITY TO OFFER A NEW DEGREE PROGRAM*

-- Including incremental credentials building up to the Degree --

* Prior to final action by the Board of Regents, no institution may initiate or publicize a new program.*

Date: January 17, 2018

| | |
|--|---|
| Institution: Louisiana Delta Community College | Requested <u>CIP, Designation, Subject/Title</u> : CIP: 110701 A.S. Computer Science C.T.S. Secure Software Design |
| Contact Person & Contact Info Ryan Pierce Division Chair School of Business and Technology Louisiana Delta Community College 7500 Millhaven Rd. Monroe, LA 71203 Phone: 318-345-9223 Email: rpierce@ladelta.edu | |
| Date Letter of Intent was approved by Board of Regents: | |
| Date this Proposal was approved by Governing Board: | |
| Planned Semester/Term & Year to Begin Offering Program: Spring 2018 | |

1. Program Description

Describe the program concept: (a) purpose and objectives; (b) mode of delivery (on-site/hybrid/on-line). Describe plan for developing and rolling out new courses.

Computers are wonderful works of art and functionality. The hardware that these powerful behemoths behold can navigate minefields of logic and calculation in nanoseconds. Yet, the inherent potential power that these devices wield can only be realized through human intelligence and ingenuity poured in via computer programs. It is only through skillfully crafted software that the physical mechanisms of computing devices can be fully actualized into indispensable tools for productivity and creativity.

The purpose of the Associate of Science Degree in Computer Sciences is to build the bridge between budding computer programmers and their futures, while earning an associate degree from which they may further their academic pursuits or opt to enter the workforce with a foundational skillset in logic and design.

The goals of the Computer Sciences program are:

- To offer academically transferable courses in computer programming, software planning and design, information logic, discrete mathematics, and related Computer Science disciplines
- To prepare the student for a successful and lucrative career in computer programming or software engineering
- To incorporate innovative teaching competencies and programs leading to the associate degree in the Computer Science program, certificate programs, and specialized career training
- To integrate technology across the disciplines affording all students a variety of electronic learning opportunities
- To offer courses transferable to four-year colleges and universities
- To present opportunities for the Computer Science students to participate in relevant student organizations, community events, and interaction with the Information Technology community
- To participate with area businesses and industry to meet training needs

The Associate of Science in Computer Science combines English, math, social science, natural science, and humanities with computer science curriculum to create a program designed to meet the increasing demand for entry-level computer programmers. Further, a significant portion of the coursework is transferable for those students wishing to complete a bachelor's degree. We are currently working with the University of Louisiana at Monroe to solidify an MOU/2+2 agreement.

Graduates of the Louisiana Delta Community College Computer Science program will be able to:

- Demonstrate knowledge and skills in the organization and creation of computer programs
- Communicate using both verbal and written communication to accurately convey technical information and to critically read and interpret technical literature
- Successfully complete industry-based certifications associated where applicable.

The Associate of Science degree in Computer Science allows students to transfer to computer science programs offered by a baccalaureate degree granting institution. This concentration will provide students with a foundation in computer programming and design.

Program Options:

AS – Computer Science

CTS – Certificate Programs

Secure Software Design

Program Courses

AS Computer Science – 18 hours

CSCI 200 – Software Design & Programming I

CSCI 203 – Software Design & Programming II

CSCI 226 – Discrete Structures

CSCI 253 – Computer Organization with
Assembly Programming

CSCI 273 – Data Structures & Algorithms

CSCI 285 – Information Technology Ethics

General Education Core

AS Computer Science– 36 to 40 hours

FRST 100 – 1 hour

ENGL 101 – 3 hours

ENGL 102 – 3 hours

MATH 110 or MATH 220 – 3 or 5 hours

MATH 111 or MATH 221 – 3 or 5 hours

PSYC 201 or SOCL 201 – 3 hours

Humanities elective – 6 hours

Fine Arts Elective – 3 hours

BIOL 201 – 3 hours

BIOL 203 – 1 hour

SPCM 120 – 3 hours

PHSC 100 or PHYS 210 – 3 hours

PHSC 110 or PHYS 211 – 1 hour

Computing Electives – 9 hours⁺

CINS 130 – Information Security Fundamentals*

CINS 220 – System Security*

CNET 110 – Network Fundamentals I*

CNET 111 – Network Fundamentals II*

CSCI 240 – Project Management

CSCI 295 – Internship

*suggested elective +elective can also be any offered CNET or CINS course

Map out the proposed curriculum, in sequence, identifying any incremental credentials and/or concentrations within the degree. Indicate which courses will be new, including those that would be offered in the new program as electives. Describe any special requirements (e.g., internships, comprehensive exam, thesis, etc.).

Associate of Science in Computer Science

FIRST SEMESTER

| | |
|---|-----------|
| FRST 100 – Freshman Studies Seminar | 1 |
| ENGL 101 – English Composition I | 3 |
| MATH 110 – College Algebra | 3 |
| BIOL 201 – Principles of Biology I | 3 |
| BIOL 203 – Principles of Biology I Lab | 1 |
| CSCI 200 – Software Design & Programming I | 3 |
| PSYC 201/SOCL 201 – Intro to Psychology/Sociology | 3 |
| Semester Total | 17 |

SECOND SEMESTER

| | |
|---|-----------|
| ENGL 102 – English Composition II | 3 |
| MATH 111 – Plane Trigonometry | 3 |
| CSCI 203 - Software Design & Programming II | 3 |
| CSCI 285 – Information Technology Ethics | 3 |
| Fine Arts Elective | 3 |
| Semester Total | 15 |

THIRD SEMESTER

| | |
|---|-----------|
| CSCI 226 – Discrete Structures | 3 |
| CSCI 253 – Computer Organization with Assembly Programming | 3 |
| Natural Science Elective (GEOL 101, CHEM 110, PHSC 100) | 3 |
| CINS 130 - Information Security Fundamentals or CINS/CSCI/CNET Elective | 3 |
| History Elective (first in series) | 3 |
| Semester Total | 15 |

FOURTH SEMESTER

| | |
|--|-----------|
| CSCI 273 – Data Structures and Algorithms | 3 |
| CINS 220 – System Security or CINS/CSCI/CNET Elective | 3 |
| CNET 110 – Network Fundamentals I or CINS/CSCI/CNET Elective | 3 |
| SPCM 120 – Intro to Public Speaking | 3 |
| Humanities Elective (History, second in series) | 3 |
| Semester Total | 15 |

| | |
|--------------------|-----------|
| TOTAL HOURS | 62 |
|--------------------|-----------|

Certificate of Technical Studies in Secure Software Design

| | |
|--|-----------|
| CSCI 200 – Software Design & Programming I | 3 |
| CSCI 203 – Software Design & Programming II | 3 |
| CSCI 226 – Discrete Structures | 3 |
| CSCI 253 – Computer Organization with Assembly Programming | 3 |
| CSCI 273 – Data Structures and Algorithms | 3 |
| CSCI 285 – Information Technology Ethics | 3 |
| CINS 130 – Information Security Fundamentals | 3 |
| CINS 220 – System Security | 3 |
| TOTAL HOURS | 24 |

2. Need

Outline how this program is deemed essential for the wellbeing of the state, region, or academy (e.g., how is it relevant, how does it contribute to economic development or relate to current/evolving needs).

In the next five years, Louisiana will have the opportunity to employ tens of thousands of people in new good-paying jobs. This comes as a result of new companies growing their operations and relocating to the state, making investments of over \$60 billion in Louisiana. The educational system must ensure that all Louisiana citizens have the opportunity to participate in this opportunity by equipping them with the skills these companies need.

Describe how the program will further the mission of the institution.

According to Louisiana 2020, approximately 20,000 students earned a college credential from a Louisiana community or technical college in 2014. The demands of our economy require that we do more. To meet this demand Louisiana's community and technical colleges will graduate 40,000 students per year by 2020 with a focus on credentials aligned to fields with the greatest demand. This goal will require Louisiana's community and technical colleges to partner with employers across the state and continuously customize academic and training offerings to match the high value jobs available in each region. Offering credentials that deliver outstanding value to students and employers is the key to doubling the annual number of graduates.

According to the Louisiana Workforce Commission, Information Technology will be of high demand through the year 2022 in the Region Area 8 labor market. These are 3 – 5 star positions with a pay range from \$34,496 - \$88,048.

Identify similar programs in the state and explain why the proposed one is needed: present an argument for a new or additional program of this type and how it will be distinct from existing offerings.

Louisiana Delta Community College is the only community college located in Northeast Louisiana and as such would be the only institution granting an Associate of Science in Computer Science degree which would allow LDCC to be a conduit to pipe quality graduates into the Computer Science programs of the University of Louisiana at Monroe, Louisiana Tech University, and Grambling State University.

If approved, will the program result in the termination or phasing out of existing programs? (Is it a replacement?) Explain.

No, the Associate of Science in Computer Science degree is a new degree that will allow students in North Louisiana to complete the first two years of a Computer Science degree at Louisiana Delta Community College before transferring to a four year university to complete a Bachelor of Science degree in Computer Science.

If a Graduate program, cite any pertinent studies or national/state trends indicating need for more graduates in the field. Address possibilities for cooperative programs or collaboration with other institution(s).

N/A

3. Students

Describe evidence of student interest. Project the source of students (e.g., from existing programs, or the prospects of students being recruited specifically for this program who might not otherwise be attracted to the institution).

We currently have approximately 10 students that would like to enroll in the Computer Science program, but are waiting for us to officially have one recognized by the state so they can change their majors to the A.S. in Computer Science. The students are currently taking Gen Ed classes as well as computer science courses. We also will promote the program to high school students at our annual Technology Fair and Destination Delta events and to the General Public at our annual Discover Delta event. Pamphlets will be produced and distributed at these events and to area high schools.

Project enrollment and productivity for the first 5 years, and explain/justify the projections.

Based on expressed interest of local industry and potential students the projected enrollment for the first year is 10 students. We also project a 20% increase in enrollment for each of the first five years and a completion rate of 50%.

Provide enrollment/completer data for closely related programs currently offered at the institution.

None offered

What preparation will be necessary for students to enter the program?

Enrollment will be open to high school graduates. Remediation classes in Math and English may be necessary and will be determined based on the each student's scores for Math and English on either the ACT, Compass, or AccuPlacer Exams.

If a Graduate program, indicate & discuss sources of financial support for students in the program.

N/A

4. Faculty

List present faculty members who will be most directly involved in the proposed program: name, present rank; degrees; courses taught; other assignments.

Natalie Campbell, Assistant Professor

Bachelor of Science in Computer Science, Master of Business Administration,

Doctor of Philosophy Instructional Systems & Workforce Development -Information Technology

Natalie currently plays a coordinating role in the CINS and CSCI curriculum and has developed almost all of the computer science courses we are currently delivering or plan to deliver. She is undoubtedly set to be lead faculty. Her primary responsibility at this point in time is the stewardship of the computer science program.

Joseph Kwashnak, Instructor

Bachelor of Arts International Relations & History, Master of Business Administration, Master of Science Management Information

Currently teaches BUSN and CINS classes and will support the efforts of the computer science program

Gary Kleinpeter, Adjunct Instructor

Bachelor of Science in Math Education, Master of Religious Education, Master of Science in Computer Science

Currently teaches CINS classes and is available to teach computer science classes

Kim Taylor, Adjunct Instructor

Bachelor of Science in Computer Science, Master of Science Computer Science
Training and LMS Coordinator at University of Louisiana, Monroe

Virginia Eaton, Adjunct Professor

Bachelor of Arts in English and Mathematics, Mater of Arts English, Master of Science Computer Science,
Doctor of Education Computer Science

Currently teaches computer science courses at University of Louisiana, Monroe

Ryan Pierce, Division Chair/Instructor

Bachelor of Science Computer Information Systems, Master of Science Information Systems and
eCommerce

Currently teaches CNET and CINS classes

Project the number of new faculty members needed to initiate the program for each of the first five years. If it will be absorbed in whole or part by current faculty, explain how this will be done. Explain any special needs.

Natalie Campbell is the lead instructor for the Computer Science (CSCI) program and has developed and taught almost all of the CSCI classes to this point. Other instructors in our department will be able to teach in the program as needed. However, as the program grows, it is anticipated that we will need another full time CSCI instructor at least by the end of the fifth year of instruction.

Describe involvement of faculty – present and projected – in research, extension, and other activities and the relationship of these activities to teaching load. For proposed new faculty, describe qualifications and/or strengths needed.

New Faculty Requirements – Master degree with at least 18 graduate hours in Computer Science or related discipline. Minimum of 3 years work (teaching or industry) experience preferred.

5. Library and Other Special Resources

Are present library holdings in related fields adequate to initiate the program? To meet program needs in the first 5 years, what will be needed? Do other institutions have library resources available to faculty & students for the proposed program?

Present holdings are adequate. The Computer Information Science field changes so quickly that most information resources will be accessed using the Internet. The LDCC library has access to the major databases such as LOUIS to give students access to required material. The University of Louisiana at Monroe has both a Computer Science and a Computer Information Systems program and our students would have access to their library as well.

Indicate/estimate total expenditure for the last two fiscal years in library acquisitions for fields or departments offering or related to the proposed program.

\$101,967.00 – LOUIS Database

Project library expenditures needed for the first 5 years of the program.

\$150,000 (in conjunction with the proposed AAS Information Technology degree)

What additional special resources, other than library holdings, will be needed?

None

6. Facilities and Equipment

Describe *existing* facilities (classrooms, labs, offices, etc) available for the program. Describe present utilization of these facilities that are assigned to the sponsoring department.

Our department currently has two computer labs in which classes are scheduled. These two labs have 40 and 26 computer stations respectively A third lab that has 40 stations and is part of our College (Liberal Arts and Business) will be utilized and upgraded for the program. These three labs would give us more than adequate classroom space for the proposed program.

Describe the need for new facilities (e.g., special buildings, labs, remodeling, construction, equipment), and estimate the cost, proposed sources of funding, and estimated availability for program delivery.

On the Monroe campus, two of the three labs have recently been updated with new computers. The estimated cost of updating the third lab is \$24,000. These funds have been requested from the Carl Perkins grant. New computers for the Winnsboro lab have also been requested from the Carl Perkins grant at a cost of \$14,000. The lab in West Monroe has recently been updated with new computers.

7. Administration

In what department, division, school, college, or center/institute will the proposed program be administered? How will the new program affect the present administrative structure of the institution?

The proposed program originates and is maintained within the School Business & Technology under the administration of the Division Chair of the school of Business & Technology. Depending upon the rate of growth of the program, there may be a need for additional coordinator and/or program director roles for specialized areas.

Describe departmental strengths and/or weaknesses and how the proposed program will affect them.

We currently have six instructors that could be credentialed to teach CSCI classes. Three of the six have Computer Science teaching experience at the university level. The weakness is that as we pull these instructors to teach Computer Science classes, it will create a need for new instructors to teach the cross discipline and high demand sections of Intro to Computers as well as the MS Office Suite of courses.

8. Accreditation

Describe plan for achieving *program* accreditation, including: name of accrediting agency, basic requirements for accreditation, how the criteria will be achieved, and projected accreditation date.

Only SACSCOC approval is required beyond Board of Regents approval. Upon BOR approval, the appropriate paperwork will be submitted to SACSCOC.

If a graduate program, describe the use of consultants in developing the proposal, and include a copy of the consultant's report as an appendix.

N/A

9. Related Fields

Indicate subject matter fields at the institution which are related to, or will support, the proposed program; describe the relationship.

The thirty-six to forty General Education credits required for the Associate degree are already being offered at Louisiana Delta Community College so there would not be a need to offer new General Education classes for the proposed degree. Some of the new CSCI classes that are required for the Computer Science degree will also be incorporated into the AAS in Information Technology as electives.

10. Cost & Revenue

Summarize additional costs to offer the program, e.g., additional funds for research needed to support the program; additional faculty, administrative support, and/or travel; student support. How will the program affect the allocation of departmental funds?

The largest expenditure would be for one additional faculty member. One additional faculty will be required at an estimated cost of \$53,900 (includes benefits) annually. However, that faculty line item will be added once the program grows to a level that would require and support said faculty, projected for the year 2020. A request will be made that the new instructor be paid for the first three years through Carl D. Perkins Grant funds. Should the program expand beyond predicted numbers, adjunct faculty will be acquired at \$600/credit hour.

In an ideal world, updated computer labs would be nice to have but are currently unnecessary given the infancy of the program and satisfactory computing resources. The cost to update one computer lab is approximately \$24,000, yet these funds would come from Carl Perkins Grant initiatives and would not directly impact the bottom line of LDCC.

No additional funds are anticipated to be needed for research to support the program.

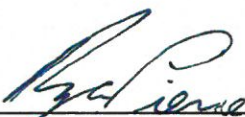
No additional costs will be associated with administrative support, travel, or student support as these areas are already allocated within the department and will be adequate for the proposed program.

*On the separate budget form, estimate new costs and revenues for the projected program for the first four years, indicating need for additional appropriations or investment by the institution.

Outside of revenue from tuition & fees, explain and justify any additional anticipated sources of funds, e.g., grants (in hand, promised, or in competition), institutional funds, etc.

It is planned that we will utilize funding from the Carl Perkins grant to add a third computer lab in order to adequately accommodate the needs of the program. Additional funding from Carl Perkins may be available in subsequent years to be determined by the Carl Perkins grant foundation.

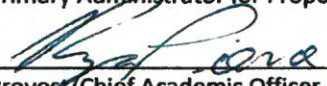
CERTIFICATIONS:



Primary Administrator for Proposed Program

1/17/18

Date



Provost/Chief Academic Officer

1/17/18

Date

Management Board/System Office

Date

SUMMARY OF ESTIMATED ADDITIONAL COSTS/INCOME FOR PROPOSED PROGRAM

Institution: Louisiana Delta Community College Date: Jan 17, 2018

Degree Program, Unit: Associate of Science in Computer Science

FTE = Full Time Equivalent (use the institution's standard definition and provide that definition).

| EXPENDITURES | | | | | | | | |
|------------------------------|------------------|---------------|-------------------|---------------|------------------|-----|-------------------|-----|
| INDICATE ACADEMIC YEAR: | FIRST FY 2018 | | SECOND FY 2019 | | THIRD FY 2020 | | FOURTH FY 2021 | |
| | AMOUNT | FTE | Amount | FTE | AMOUNT | FTE | AMOUNT | FTE |
| Faculty | \$0.00 | | \$0.00 | | \$53,900 | 1.0 | \$53,900 | 1.0 |
| Graduate Assistants | | | | | | | | |
| Support Personnel | | | | | | | | |
| Fellowships and Scholarships | | | | | | | | |
| SUB-TOTAL | \$0.00 | | \$0.00 | 1.0 | \$53,900 | 1.0 | \$53,900 | 1.0 |
| | AMOUNT | AMOUNT | AMOUNT | AMOUNT | | | | |
| Facilities | \$0.00 | \$0.00 | \$0.00 | \$0.00 | | | | |
| Equipment | | | | | | | | |
| Travel | | | | | | | | |
| Supplies | \$1,500 | \$1,500 | \$1,500 | \$1,500 | | | | |
| SUB-TOTAL | \$1,500 | \$1,500 | \$1,500 | \$1,500 | | | | |
| TOTAL EXPENSES | \$1,500 | \$1,500 | \$1,500 | \$1,500 | \$55,400 | | \$55,400 | |
| REVENUES | | | | | | | | |
| Revenue Anticipated From: | AMOUNT | AMOUNT | AMOUNT | AMOUNT | | | | |
| *State Appropriations | \$ | \$ | \$ | \$ | | | | |
| *Federal Grants/Contracts | | | | | | | | |
| *State Grants/Contracts | | | | | | | | |
| *Private Grants/Contracts | | | | | | | | |
| Expected Enrollment | 10 | 12 | 14 | 17 | | | | |
| Tuition | \$16,070.40 | \$19,284.48 | \$22,498.56 | \$27,319.68 | | | | |
| Fees | \$4,724.80 | \$5,669.76 | \$6,614.72 | \$8,032.16 | | | | |
| *Other (specify) | | | | | | | | |
| TOTAL REVENUES | \$20,795.20 | \$24,954.24 | \$29,113.28 | \$35,351.84 | | | | |

* Describe/explain expected sources of funds in proposal text.