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Louisiana  
Community  
& Technical  
College System

265 South Foster Drive  
Baton Rouge, LA 70806

Phone: 225-922-2800  
Fax: 225-922-1185

[www.lctcs.edu](http://www.lctcs.edu)

## LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**APPROVED**

*Slc* 6/10/20  
LCTCS BOARD OF SUPERVISORS

**TO:** Dr. Monty Sullivan  
LCTCS President

**FROM:** Dr. René Cintrón  
Chief Education and Training Officer

**SUBJECT:** Staff Requests at River Parishes Community College

**DATE:** 5/25/2020

### **STAFF ACTION:**

**Recommendation:** Staff recommends adoption of the following program in accordance with LCTCS Policy #1.024:

#### **Program Adoption**

1. Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing, (CIP 11.0902) - **5 STARS**

**Background:** River Parishes Community College (RPCC) is seeking approval to adopt the Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing from Bossier Parish Community College (BPCC). Recent revisions to LCTCS Policy #1.024 updated the process that colleges use to create, modify, or adopt curriculum making it more efficient and streamlined. Staff is requesting that this program be adopted by RPCC.

**Fiscal Impact:** The administrative structure will not change. There are no anticipated expenditures associated with these modifications.

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

**Benefits to the System:** These requests will allow RPCC to better meet student and workforce needs.

**Approved for Program Adoption**  
**Dr. Monty Sullivan**

**Date**



P.O. Box 2367 • 925 W. Edenborne Parkway • Gonzales • Louisiana • 70737  
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May 21, 2020

Board of Supervisors  
The Louisiana Community and Technical College System  
265 South Foster Drive  
Baton Rouge, LA 70806

**Attention:** Rene Cintron, Ph.D., Chief Academic Affairs Officer

**Subject:** Program Adoption

**Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing (CIP 11.0902).**

Dear. Dr. Cintron,

River Parishes Community College is requesting to adopt the Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing as published in the 2019-2020 Bossier Parish Community College Catalog. River Parishes Faculty and Staff request the following approval of the program adoption as approved by the LCTCS BOS:

1. Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing (CIP 11.0902) updated 2019.

In response to the requests by River Parishes Community College's community employment market, the Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing (CIP 11.0902) is being proposed for adoption. This program adoption has been reviewed and approved by RPCC Curriculum Review Committee.

Sincerely,

A handwritten signature in black ink that reads 'Michael E. Beck'.

Mike Beck, Ed.D., College Chief Academic Officer



## River Parishes Community College Curriculum Committee Proposal Form New Program

**Note:** A program may not be advertised, formally or informally, until approved by the RPCC Curriculum Committee, the LCTCS Board of Supervisors, the Louisiana Board of Regents, and SACSCOC (as appropriate)

<b>AWARD LEVEL(S) THAT WILL BE INCLUDED IN THE NEW PROGRAM</b>	
<p>Award Level(s):</p> <p><input checked="" type="checkbox"/> Associate of Applied Science (A.A.S.)</p> <p><input type="checkbox"/> Associate of Science (A.S.)</p> <p><input type="checkbox"/> Associate of Arts (A.A.)</p> <p><input type="checkbox"/> Other Associate Degree</p> <p style="margin-left: 20px;">Name: <span style="background-color: #e0f0ff; border: 1px solid #000; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span></p>	<p><input type="checkbox"/> Technical Diploma (T.D.)</p> <p><input type="checkbox"/> Certificate of Technical Studies (C.T.S.)</p> <p><input type="checkbox"/> Certificate of Applied Science (C.A.S.)</p> <p><input type="checkbox"/> Certificate of General Studies (C.G.S.)</p>

<b>NAME OF NEW PROGRAM and AWARD LEVEL(S)</b>			
Name: Associate of Applied Science (AAS) in Systems Administration with a concentration in Cloud Computing			
CIP: CIP 11.09002	Credit Hours: 60	Contact Hours:	Award Level: AAS
Name:			
CIP:	Credit Hours:	Contact Hours:	Award Level:
Name:			
CIP:	Credit Hours:	Contact Hours:	Award Level:
Name:			
CIP:	Credit Hours:	Contact Hours:	Award Level:

**REASON/JUSTIFICATION FOR NEW PROGRAM (Include support such as four-year university agreements, industry demand, advisory board information, etc.)**

Cloud computing is an emerging area of interest within the IT industry. This billion-dollar industry, is expected to grow to \$285 billion by 2025 (Bloomberg, 2019). Not only are there substantial high-paying jobs available in this field, but a key component of the new economy is building up the existing talent pipeline by designing educational programs around the skills needed, such as cloud computing, for twenty-first century jobs. The College and LCTCS have partnered with Amazon Web Services to provide training to support the growing Information Technology sector across the state.

**IMPLEMENTATION DATE (Semester and Year)**

Fall 2021

**SITE(S) OF NEW PROGRAM**

☒ Gonzales

☐ Reserve

☐ Westside

☐ All Campuses

**LOUISIANA WORKFORCE COMMISSION STAR LEVEL (<http://www.laworks.net/Stars/>)**

☒ 5 Stars

☐ 4 Stars

☐ 3 Stars

☐ 2 Stars

☐ 1 Star

**PLAN FOR PROVIDING QUALIFIED FACULTY (Check all that apply)**

☒ Use Existing Faculty

☐ Hire Adjunct Faculty

☐ Hire Full-Time Faculty

#: 5

#: \_\_\_\_\_

#: \_\_\_\_\_

**MINIMUM CREDENTIALS REQUIRED FOR FACULTY**

Education: Masters for Gen Ed.

Experience: Current faculty

Certification:

<b>ANTICIPATED ENROLLMENT:</b>					
<b>Students</b>	<b>Year One</b>	<b>Year Two</b>	<b>Year Three</b>	<b>Year Four</b>	<b>Year Five</b>
<u>DAY</u>	10	13	15	18	20
<u>EVENING</u>					
Describe Process for Attaining & Estimating Enrollment:		Based on documentation from other LCTCS colleges.			

<b>PROGRAM ACCREDITATION:</b>	
<b>Is Program Accreditation, Licensure or Certification Required?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	If YES, please provide projected accreditation/licensure/certification date:
<b>Type/Name of Program Accreditation, Licensure or Certification Required:</b>	RPCC will consider submitting to Council on Occupational Education (COE) for approval.

<b>DESCRIBE IMPLEMENTATION COSTS</b> (Include Faculty, Facilities, Library Resources, etc.)
No implementation costs. Use of existing faculty and facilities.

**PROGRAM CURRICULUM**

(Use the template below or insert separate attachment)

<b>Subject Code</b>	<b>Course Number</b>	<b>Course Title</b>	<b>Lecture Hours</b>	<b>Lab Hours</b>	<b>Contact Hours</b>	<b>Credit Hours</b>
<b>First Semester</b>						
CTEC	102	Problem Solving and Programming Techniques				3
CTEC	112	IT Hardware Support				3
CTEC	114	IT Software Support				3
MATH	1100	College Algebra				3
ENGL	1010	English Composition I				3
<b>Second Semester</b>						
CTEC	155	Network Essentials				3
CTEC	104	Introduction to Scripting				3
CTEC	165	Introduction to Virtualization				3
CTEC	170	Microsoft Windows Servers				3
		Behavioral/Social Science elective				3
<b>Third Semester</b>						
		Approved CTEC Elective				3
CTEC	262	Introduction to Cloud Computing				3
CTEC	172	Linux Server				3
CTEC	287	Network Security Design				3
		Natural Science Elective				3

<b>Fourth Semester</b>						
		Approved CTEC Elective				3
CTEC	272	Advanced Topics in Linux				3
SPCH	1010	Fundamentals of Speech				3
		Humanities Elective				3
CTEC	299	CTEC Internship				3
<b>Fifth Semester</b>						
<b>Sixth Semester</b>						

**FOR CURRICULUM COMMITTEE USE**

Curriculum Committee Notes:

**CURRICULUM COMMITTEE DECISION**☒ Recommend to Approve☐ Not Recommended for Approval☐ Returned to Division for further reviewPrinted Name of Committee Member:  
Emily AucoinSignature:  
*Emily Aucoin*Date:  
May 20, 2020

Printed Name of Committee Member:

Signature:  
*James Rolles*  
James Rolles (May 20, 2020 11:21 CDT)Date:  
May 20, 2020Printed Name of Committee Member:  
John L SluderSignature:  
*John Sluder*Date:  
May 20, 2020

Printed Name of Committee Member:

Signature:  
*Sam Bono*Date:  
May 20, 2020Printed Name of Committee Member:  
Iris HenrySignature:  
*Iris Henry May 20, 2020*  
Iris Henry May 20, 2020 (May 20, 2020 15:02 CDT)Date:  
*Iris Henry May 20, 2020*  
Iris Henry May 20, 2020 (May 20, 2020 15:02 CDT)



**FOR VICE CHANCELLOR USE**

Vice Chancellor Notes:

**VICE CHANCELLOR DECISION**☒ Approved☐ Not Approved☐ Returned to Division/Curriculum  
Committee for further review

Printed Name of Vice Chancellor:

**Michael Beck**

Signature:



Date:

**05/21/20****LCTCS BOARD OF SUPERVISORS APPROVAL**☐ Approved (attach LCTCS  
meeting minutes)☐ Not Approved

Date:

**LOUISIANA BOARD OF REGENTS APPROVAL**☐ Approved (attach BOR  
meeting minutes)☐ Not Approved☐ Approval not needed  
(program is not  
Associate, CAS, or CGS)

Date: May 20, 2020

**SACSCOC APPROVAL**☐ Approved (attach letter)☒ Pending SACSCOC Approval☐ Approval not needed  
(program is not a  
substantive change)**REGISTRAR AND FINANCIAL AID NOTIFICATION**Financial Aid Director Signature:   
Lisa Jackson (May 21, 2020 08:29 CDT)

Date: May 21, 2020

Registrar Signature: 

Date: May 21, 2020

**CATALOG UPDATE**Academic Affairs Signature: 

Date: May 21, 2020

Notes:  
Will update for 2021-2022 catalog.Signature:   
Esperanza Zenon (May 20, 2020 21:19 CDT)

Email: ezenon@rpcc.edu









# RPCC Curriculum Committee Proposal Form\_New Program 52020

Final Audit Report

2020-05-21

















Created:	2020-05-20
By:	Mike Beck (mbeck@rpcc.edu)
Status:	Signed
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and Procedures](#)

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[Glossary](#)

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## Systems Administration, Cloud Computing Concentration, AAS

Return to: [Programs Of Study By Academic Division](#)

The Associate of Applied Science in Systems Administration with a concentration in Cloud Computing program provides students with the skills needed to manage an organization's computer systems. The program prepares individuals to function as entry-level systems administrators and covers analyzing system logs, applying system updates, updating user accounts, troubleshooting problems, and ensuring uptime.

### Learning Outcomes:

Recipients of the Associate of Applied Science in Systems Administration with a concentration in Cloud Computing will be able to:

- A. read and interpret technical literature and convey technical information through verbal and written communication;
- B. analyze critically and troubleshoot computer system issues;
- C. demonstrate an understanding of user account permissions;
- D. utilize critical thinking skills to collect, analyze, and interpret system logs and user activity; and
- E. maintain internal systems by installing system updates, patches, and security protection.

### Specific Degree Information:

Students are encouraged to meet with an academic advisor concerning required courses and sequencing for this degree.

- Students who are in the internship\* of the Systems Administration - Cloud Computing Program must be available for 100 hours of internship.
- Internship students must be prepared to complete internship rotations at an out of town facility.
- A prerequisite to applying to internship is the completion of at least one approved programming portfolio or the completion of at least one approved industry-based certification.
- Internship students must adhere to internship site requirements which include but may not be limited to background checks, drug screens, and orientation meetings.
- Internship students must provide documentation of achievement of two accredited, approved industry-based certifications by the end of the internship.

\*In special circumstances the internship may be substituted with Dean and Program Director approval with a 200 level CIT course and completion of two approved industry-based certifications.

### Required Courses for the Associate of Applied Science in Systems Administration with a Concentration in Cloud Computing:

## Freshman Year

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### First Semester: 15 Hours

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- CTEC 102:Problem Solving and Programming Techniques Credit Hours: 3
- CTEC 112:IT Hardware Support Credit Hours: 3
- CTEC 114:IT Software Support Credit Hours: 3
  
- MATH 101:Applied Algebra for College Students Credit Hours: 3 or
- MATH 102:College Algebra Credit Hours: 3
  
- ENGL 101:Composition and Rhetoric I Credit Hours: 3

### Second Semester: 15 Hours

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- CTEC 155:Network Essentials Credit Hours: 3
- CTEC 104:Introduction to Scripting Credit Hours: 3
- CTEC 165:Introduction to Virtualization Credit Hours: 3
- CTEC 170:Microsoft Windows Servers Credit Hours: 3
- Behavioral/Social Science Elective Credit Hours: 3

## Sophomore Year

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### Third Semester: 15 Hours

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- Approved CTEC Elective Credit Hours: 3
- CTEC 262:Introduction to Cloud Computing Credit Hours: 3
- CTEC 172:Linux Server Credit Hours: 3
- CTEC 287:Network Security Design Credit Hours: 3
- Natural Science Elective Credit Hours: 3

### Fourth Semester: 15 Hours

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- Approved CTEC Elective Credit Hours: 3 \*
- CTEC 272:Advanced Topics in Linux Credit Hours: 3
- SPCH 110:Public Speaking Credit Hours: 3
- Humanities Elective Credit Hours: 3
- CTEC 299:CTEC Internship Credit Hours: 3; 100 internship hours

## Total Credit Hours: 60

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<sup>a</sup> For transfer to a four-year institution, students are strongly advised to take [MATH 102](#) instead of [MATH 101](#). Students must seek the assistance of their advisor to determine the appropriate mathematics course. <sup>b</sup> May not be sole humanities course. <sup>c</sup> May only be used for AAS degrees

Students must meet prerequisites before taking any given course. Students must earn a minimum grade of C in each course and have a minimum 2.0 GPA to earn a credential.