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## Proposal for a New Degree Program

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### I. Information and Rationale

#### A. Primary Contact Information

Institution: [Trenholm State Community College](#)

Contact: [Nakia R. Robinson](#)

Title: [Dean of Academic & Transfer Programs](#)

Email: [nrobinson@trenholmstate.edu](mailto:nrobinson@trenholmstate.edu)

Telephone: [334-420-4323](tel:334-420-4323)

#### B. Program Information

Date of Proposal Submission: [3/5/2024](#)

Award Level: [Associate's Degree](#)

Award Nomenclature (e.g., B S, MBA): [AAS](#)

Field of Study/Program Title: [Data Analytics](#)

CIP Code (6-digit): [30.7101](#)

#### C. Implementation Information

Proposed Program Implementation Date: [1/2/2025](#)

Anticipated Date of Approval from Institutional Governing Board: [6/12/2024](#)

Anticipated Date of ACHE Meeting to Vote on Proposal: [6/14/2024](#)

SACSCOC Sub Change Requirement (Notification, Approval, or NA): [Approval](#)

Other Considerations for Timing and Approval (e.g., upcoming SACSCOC review):

#### D. Specific Rationale (Strengths) for the Program

List 3 – 5 strengths of the proposed program as specific rationale for recommending approval of this proposal.

1. [An Associate of Applied Science degree in Data Analytics provides an accessible education pathway for students who wish to pursue studies in the field of data science.](#)
2. [Graduates of the program will be prepared for entry-level positions in a growing professional field that requires skill sets in data analysis, interpretation, and presentation.](#)
3. [The implementation of the program will position graduates to enter a field that offers high employment opportunities.](#)



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List external entities (more may be added) that may have supplied letters of support attesting to the program's strengths and attach letters with the proposal at the end of this document.

1. Alabama Technology Foundation
2. I85Cyber.org
3. Gibraltar Solutions Development Company
4. TechMGM

## **II. Background with Context**

### **A. Concise Program Description**

Include general opportunities for work-based and/or experiential learning, if applicable.

The proposed Associate of Applied Science Program in Data Analytics is a comprehensive program designed to equip students with the skills necessary to analyze, interpret, and visualize data in a variety of professional settings. The curriculum includes courses in statistics, programming, data management, and data visualization, providing students with a solid foundation in the key concepts and techniques used in the field of data analytics. The program will offer the option to pursue internship opportunities that allow students to gain practical experience in real-world settings. The internships will provide students with the opportunity to apply their knowledge and skills in a professional environment, enhancing their understanding of the field and preparing them for a successful career in data analytics.

### **B. Student Learning Outcomes**

List four (4) to seven (7) of the student learning outcomes of the program.

1. Students will be able to collect, clean, and manage data from a variety of sources.
2. Students will be able to apply statistical concepts and methodologies for analysis.
3. Students will be able to create meaningful visual representations of data to aid in analysis and interpretation.
4. Students will be able to identify problems that can be solved through data analysis, formulate relevant questions, and propose suitable data-driven solutions.

### **C. Administration of the Program**

Name of Dean and College: **Dr. Nakia R. Robinson**

Name of Department/Division: **Computer Information Systems**

Name of Chairperson: **Mrs. Omeika Harrison**



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**D. Similar Programs at Other Alabama Public Institutions**

List programs at other Alabama public institutions of the same degree level and the same (or similar) CIP codes. If no similar programs exist within Alabama, list similar programs offered within the 16 SREB states. If the proposed program duplicates, closely resembles, or is similar to any other offerings in the state, provide justification for any potential duplication.

Currently, no institutions in Alabama offer a data analytics (or similar) program at the associate level.

CIP Code	Degree Title	Institution with Similar Program	Justification for Duplication
30.7101	Data Analytics Program	Lone Star College (TX)	There is no two-year program in Alabama
11.0103	Computer Information Technology- Data Analytics Concentration	Nashville State Community College (TN)	There is no two-year program in Alabama
52.1301	Business Analytics	Wake Technical Community College (NC)	There is no two-year program in Alabama
unknown	Computer Information—Data Management and Analysis	Broward College (FL)	There is no two-year program in Alabama
11.0103	Information Technology-Data Analytics and Database Management Option	Gaston College (NC)	There is no two-year program in Alabama
unknown	Data Science	Montgomery College (MD)	There is no two-year program in Alabama

**E. Relationship to Existing Programs within the Institution**

1. Is the proposed program associated with any existing offerings within the institution, including options within current degree programs? Yes  No

(Note: Most new programs have some relationship to existing offerings, e.g., through shared courses or resources). If yes, complete the following table. If this is a graduate program, list any existing undergraduate programs which are directly or indirectly related. If this is a doctoral program, also list related master's programs.

Related Degree Program Level	Related Degree Program Title	Explanation of the Relationship Between the Programs
AAS	Computer Information Systems	Courses offered in the core for the proposed program are offered in the current CIS core curriculum



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2. Will this program replace any existing programs or specializations, options, or concentrations? **Yes**  **No**

If yes, please explain.

3. Will the program compete with any current internal offerings? **Yes**  **No**

If yes, please explain.

#### **F. Collaboration**

- Have collaborations with other institutions or external entities been explored? **Yes**  **No**

If yes, provide a brief explanation indicating those collaboration plan(s) for the proposed program.

- Have any collaborations within your institution been explored? **Yes**  **No**

If yes, provide a brief explanation indicating those collaboration plan(s) for the proposed program.

#### **G. Specialized Accreditation**

1. Will this program have any external accreditation requirements in addition to the institution's SACSCOC program requirements? **Yes**  **No**

If yes, list the name(s) of the specialized accrediting organization(s) and the anticipated timeframe of the application process.

2. Does your institution intend to pursue any other non-required accrediting organizations for the program? **Yes**  **No**

If yes, list the name(s) of the organization(s) and the purpose of the pursuit.

If there are plans to pursue non-required external accreditation at a later date, list the name(s) and why the institution is not pursuing them at this time.

**Note: Check No to indicate that non-required external accreditation will not be pursued, which requires no explanation.**

#### **H. Admissions**

- Will this program have any additional admissions requirements beyond the institution's standard admissions process/policies for this degree level? **Yes**  **No**

If yes, describe any other special admissions or curricular requirements, including any prior education or work experience required for acceptance into the program.



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**I. Mode of Delivery**

Provide the planned delivery format(s) (i.e., in-person, online, hybrid) of the program as defined in policy along with the planned location(s) at which the program will be delivered (i.e., on-campus and/or at specific off-campus instructional site(s)). Please also note whether any program requirements can be completed through competency-based assessment.

The program courses will be offered in traditional, hybrid and online formats. The traditional and hybrid formats will be offered on-campus at the College’s Patterson Site.

**J. Projected Program Demand (Student Demand)**

Briefly describe the primary method(s) used to determine the level of student demand for this program using evidence, such as enrollments in related coursework at the institution, or a survey of student interest conducted (indicate the survey instrument used), number and percentage of respondents, and summary of results.

The Computer Information Systems (CIS) program has been one of the top three enrollment programs at Trenholm State Community College for the past three years with an average enrollment of 179 students. The enrollment numbers for the current CIS courses that are being proposed as part of the core for the Data Analytics program are as follows:

Summer 2022 – Spring 2023

Course	Enrollment
CIS 117 – Database Management Software	100
CIS 149 – Introduction to Computers	247
CIS 201 – Introduction to Computer Programming	
CIS 222 – Database Management Systems	3
CIS 238 – AWS Cloud Computing	54
CIS 281- System Analysis & Design	34
CIS 284 - Internship	10

Summer 2023 – Spring 2024

Course	Enrollment
CIS 117 – Database Management Software	70
CIS 149 – Introduction to Computers	186
CIS 201 – Introduction to Computer Programming	
CIS 238 – AWS Cloud Computing	42



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CIS 281- System Analysis & Design	36
CIS 284 - Internship	10

In order to determine student interest in Data Analytics, an internal survey was conducted (n=45). Currently, 13% of students have completed a course related to data analytics. Results indicated that 31% of our currently enrolled students are familiar with the field of data analytics and 52% were interested in learning more about academic opportunities. More specifically, survey respondents' results showed they were interested in learning more about business intelligence (25%), data visualization (24%), statistical analysis (14%), and data mining (13%).

### III. Program Resource Requirements

#### A. Proposed Program Faculty\*

##### Current Faculty and Faculty to Be Hired

Complete the following **New Academic Degree Proposal Faculty Roster** to provide a brief summary and qualifications of current faculty and potential new hires specific to the program.

**\*Note:** Institutions must maintain and have current as well as additional faculty curriculum vitae available upon ACHE request for as long as the program is active, but CVs are **not** to be submitted with this proposal.

Current Faculty			
1	2	3	4
CURRENT FACULTY NAME (FT, PT)	COURSES TAUGHT including Term, Course Number, Course Title, & Credit Hours (D, UN, UT, G, DU)	ACADEMIC DEGREES and COURSEWORK Relevant to Courses Taught, including Institution and Major; List Specific Graduate Coursework, if needed	OTHER QUALIFICATIONS and COMMENTS Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)
Bobbie Boddie (FT)	<b>Fall 2023 (NT)</b> CIS 209- Advanced Web Development (3) CIS 268 – Software Support (3) CIS 269 – Hardware Support (3) CIS 270 – CISCO CCNA 1 (3) CIS 271 – CISCO CCNA II (3)	<b>MS – Computer Information Systems</b> Bellevue University CIS 525- Business System Programming CIS 602A- Intermediate Java Programming CIS 621 Applied System Develop/Design CIS 605 – Advanced Database Management CIS 647 – Network Systems CIS 633 – Infor Technology Project Management	<b>Certifications</b> CISCO CCNA- CompTia Security + Certification Google Data Analytics Professional



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Current Faculty			
1	2	3	4
CURRENT FACULTY NAME (FT, PT)	COURSES TAUGHT including Term, Course Number, Course Title, & Credit Hours (D, UN, UT, G, DU)	ACADEMIC DEGREES and COURSEWORK Relevant to Courses Taught, including Institution and Major; List Specific Graduate Coursework, if needed	OTHER QUALIFICATIONS and COMMENTS Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)
Omeika Harrison (FT) (Program Coordinator)	<b>Fall 2023 (NT)</b> CIS 117 – Database Management (3) CIS 146 – Microcomputer Apps (3) CIS 149 – Introduction to Computers (3) CIS 157- Intro to App Development (3) CIS 284 – CIS Internship (3)	<b>MS– Computer Information Systems Troy University (2007)</b> CIS5548-Systems Prog/Op. Systems (3) CIS5545-Computer Architecture (3) CIS5547-Applied Systems Analysis (3) CIS5546-Info Org & Retrieval (3) CIS6644-Applied Computing Techniques (3) CS6647-Operations Analysis & Modeling (3) CS6640-Database Management Systems (3) CS6646-Info Syst for Operations & Mgt (3) <b>Middle Georgia State University- Doctoral Courses</b> ITEC 7110 Research for Decision Making ITEC 7200 Design Thinking & Innovation ITEC 7230 Information Technology Strategic Planning ITEC 8100 Data Science & Analytics Strategy ITEC 8110 Organizational Strategy for Cybersecurity Management	<b>Systems Engineer – Electronic Data Systems (ED) (1998-2000)</b> Performed system analysis provided trend analysis for Rapid Enforcement Management Services MS Access Database Administrator
Henderson Leflore (FT)	<b>Fall 2023 (NT)</b> CIS 146 – Microcomputer App CIS 171 – Fundamentals of Unix/Linux I CIS 207 – Intro to Web Development CIS 238 – Cloud Computing and Infrastructure Service CIS 246-Ethical Hacking CIS 268 – Software Support	MS- Computer Information Systems Walden University (2016) ITEC 6115 – Computer Network Operating System ITEC 6030- Principles of Programming ITEC 6140 Data Modeling & Database Design ITEC 6620 – Information & Systems Security ITEC 6120 Operating Systems & Network Architect ITEC 6170 – Fundamental of Info Assurance	<b>Certifications</b> AWS Cloud Practitioner CompTia Security + CompTia A+ CompTia Network + CompTIA CASP+ CompTIA CySA+
Scott Morton (FT)	<b>Fall 2023 (NT)</b> CIS 146- Microcomputer Apps CIS 149 – Introduction to Computers CIS 201 – Introduction to Computer Programming CIS 255 – Java Programming CIS 280 – Network Security CIS 281 – System Analysis & Design	MS – Computer Science (2007) Troy University CIS 5546 – Info. Org & Retrieval CIS 5547- Applied Systems Analysis CIS 6644 - Applied Computing Techniques CIS 5543 – Software Engineering CIS 5548 System Prog/Operating Systems CIS 5545 – Computer Architecture CIS 6641 – Society & Information Systems CIS 6646 Info Systems for Operations & Management	<b>Certifications</b> AWS Cloud Certified Cloud Practitioner



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<b>Additional Faculty (To Be Hired)</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>FACULTY POSITION (FT, PT)</b>	<b>COURSES TO BE TAUGHT including Term, Course Number, Course Title, &amp; Credit Hours (D, UN, UT, G, DU)</b>	<b>ACADEMIC DEGREES and COURSEWORK Relevant to Courses Taught, including Institution and Major; List Specific Graduate Coursework, if needed</b>	<b>OTHER QUALIFICATIONS and COMMENTS Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)</b>
New Hire (PT)	<b>Term 4</b> CIS 252 – Introduction to Data Visualization (3) <b>Term 5</b> CIS 294 – Special Topics (Capstone Course) (3)	MS – Computer Science or related field	

Abbreviations: (FT, PT): Full-Time, Part-Time; (D, UN, UT, G, DU): Developmental, Undergraduate Nontransferable, Undergraduate Transferable, Graduate, Dual: High School Dual Enrollment  
 Course Modality: (IP, OL, HY, OCIS): In-Person, Online, Hybrid, Off-Campus Instructional Site  
 Courses Taught/To be Taught – For a substantive change prospectus/application, list the courses *to be taught*, not historical teaching assignments.





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**B. All Proposed Program Personnel**

Provide all personnel counts for the proposed program.

Employment Status of Program Personnel		Personnel Information		
		Count from Proposed Program Department	Count from Other Departments	Subtotal of Personnel
<b>Current</b>	Full-Time Faculty	4		4
	Part-Time Faculty			
	Administration	1		1
	Support Staff	1		1
<b>**New To Be Hired</b>	Full-Time Faculty			
	Part-Time Faculty	1		1
	Administration			
	Support Staff			
			<b>Personnel Total</b>	<b>7</b>

**\*\*Note: Any new funds** designated for compensation costs (Faculty (FT/PT), Administration, and/or Support Staff to be Hired) **should be included** in the **New Academic Degree Program Business Plan Excel file**. Current personnel salary/benefits (Faculty (FT/PT), Administration, and/or Support Staff) **should not be included** in the **Business Plan**.

Provide justification that the institution has proposed a sufficient number of faculty (full-time and part-time) for the proposed program to ensure curriculum and program quality, integrity, and review.

**C. Equipment**

Will any special equipment be needed specifically for this program? Yes  No   
 If yes, list the special equipment. Special equipment cost should be included in the **New Academic Degree Program Business Plan Excel file**.

**D. Facilities**

Will any new facilities be required specifically for the program? Yes  No   
 If yes, list only **new** facilities. New facilities cost should be included in the **New Academic Degree Program Business Plan Excel file**.

Will any renovations to any existing infrastructure be required specifically for the program? Yes  No   
 If yes, list the renovations. Renovation costs should be included in the **New Academic Degree Program Business Plan Excel file**.



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**E. Assistantships/Fellowships**

Will the institution offer any assistantships specifically for this program?

Yes  No

If yes, how many assistantships will be offered?

The expenses associated with any *new* assistantships should be included in the **New Academic Degree Program Business Plan Excel file**.

**F. Library**

Provide a brief summarization (one to two paragraphs) describing the current status of the library collections supporting the proposed program.

The library has adequate resources to support the Data Analytics Program. The library purchases annual subscription to such databases as EBSCO’s Associates Programs Source Plus, Credo, and ProQuest. These databases contain thousands of books, academic journals, and scholarly articles on data analytics. In addition, the library provides access to the Alabama Virtual library which contains thousands more scholarly, and peer viewed academic journals and articles. A description of each database is contained in the table below.

Database Name	Description	Resources for Data Analytics
EBSCO’s Associated Programs Sources Plus	<i>Associates Programs Source</i> is a database designed specifically for the research needs of two-year college students. Providing hundreds of full-text journals	Total Resources = 322,802 Including: 232,220 Academic journals and articles
Credo Reference	Provides full-text online access to hundreds of multidisciplinary <i>reference</i> book collections, including art, history, law, medicine, psychology, technology,	Total Resources = 4,170 scholarly and peer reviewed articles.
ProQuest	<i>ProQuest</i> is the largest, multidisciplinary, full-text database available in the market today. This resource provides access to 47 of ProQuest's complete databases, with a variety of content types across over 175 subjects, making this the broadest single research resource in the world. Unlike other resources,	Total Resources = 321,851 Including: 5,613 Books 126,933 Scholarly journals and articles

Will additional library resources be required to support the program?

Yes  No

If yes, briefly describe how any deficiencies will be remedied, and include



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the cost in the **New Academic Degree Program Business Plan Excel file**.

### G. Accreditation Expenses

Will the proposed program require accreditation expenses? **Yes  No**

If yes, briefly describe the estimated cost and funding source(s) and include cost in the **New Academic Degree Program Business Plan Excel file**.

SACSCOC requires \$500.00 payment for a substantive change submission.

### H. Other Costs

Please explain any other costs to be incurred with program implementation, such as marketing or recruitment costs. Be sure to note these in the **New Academic Degree Program Business Plan Excel file**.

### I. Revenues for Program Support

Will the proposed program require budget reallocation? **Yes  No**

If yes, briefly describe how any deficiencies will be remedied and include the revenue in the **New Academic Degree Program Business Plan Excel file**.

Will the proposed program require external funding (e.g., Perkins, Foundation, Federal Grants, Sponsored Research, etc.)? **Yes  No**

If yes, list the sources of external funding and include the revenue in the **New Academic Degree Program Business Plan Excel file**.

Please describe how you calculated the tuition revenue that appears in the **New Academic Degree Program Business Plan Excel file**. Specifically, did you calculate using cost per credit hour or per term? Did you factor in differences between resident and non-resident tuition rates?

Tuition costs were calculated using the cost per term for full-time and part-time students. The current tuition and fees per credit hour are \$161.00. Full-time and part-time tuition costs were calculated at a minimum of 12 hours and 9 hours per term, respectively.

## IV. Employment Outcomes and Program Demand (Industry Need)

### A. Standard Occupational Code System

Using the federal Standard Occupational Code (SOC) System, indicate the top three occupational codes related to post-graduation employment from the program. A full list of SOCs can be found at <https://www.onetcodeconnector.org/find/family/title#17>.

A list of Alabama's *In-Demand Occupations* is available at <https://www.ache.edu/index.php/policy-guidance/>.



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SOC 1 (**required**): 15.2051- Data Scientist

SOC 2 (*optional*):

SOC 3 (*optional*):

Briefly describe how the program fulfills a specific industry or employment need for the State of Alabama. As appropriate, discuss alignment with Alabama's Statewide or Regional Lists of In-Demand Occupations (<https://www.ache.edu/index.php/policy-guidance/>) or with emerging industries as identified by Innovate Alabama or the Economic Development Partnership of Alabama (EDPA).

The Data Analytics Program will provide the State of Alabama with employees in the State's information technology industry. The EDPA states, "Alabama is an emerging hub for the information technology industry. Access to talent, partnerships with higher education, low costs of living and doing business create a rich ecosystem for the industry. Alabama is home to numerous nationally known companies with major IT operations. Robust defense, finance/insurance and healthcare industries were the genesis of many of these companies."

The Bureau of Labor Statistics describes a Data Analyst as an employee who will "develop and implement a set of techniques or analytics applications to transform raw data into meaningful information using data-oriented programming languages and visualization software." These skills are at the heart of what is needed to develop artificial intelligence (AI) applications, and these skills include data mining, data modeling, natural language processing, and machine learning to extract and analyze information from large structured and unstructured datasets.

As Alabama's IT industry continues to grow, data analytics will be at the forefront of emerging and innovative applications.

## **B. Employment Preparation**

Describe how the proposed program prepares graduates to seek employment in the occupations (**SOC codes**) identified.

The proposed Data Analytics Program will provide students with a comprehensive curriculum in introductory data analytics and computer science courses. Students enrolled in the program will learn how to identify, analyze, and interpret data from a wide variety of sources and industries. Additionally, students will be required to either enroll in an internship (CIS - 284) or capstone course (CIS -294). The internship course will provide students with hands-on experiences in the field with a workforce partner. The capstone course will require students to demonstrate a culmination of the skills and knowledge acquired throughout the student's matriculation to address a real-world data problem.

## **C. Professional Licensure/Certification**

Please explain if professional licensure or industry certification is required for graduates of the proposed program to gain entry-level employment in the occupations selected. Be sure to note which organization(s) grants licensure or certification.

N/A



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**D. Additional Education/Training**

Please explain whether further education/training is required for graduates of the proposed program to gain entry-level employment in the occupations selected.

Graduates of the Data Analytics program will be positioned for entry level employment in such jobs as data technicians, operations analyst, or business intelligence analyst. Further training will not be required. However, graduates may choose to pursue future studies at the baccalaureate level.

**V. Curriculum Information for Proposed Degree Program**

A. Program Completion Requirements: Enter the credit hour value for all applicable components (enter N/A if not applicable).

Curriculum Overview of Proposed Program	
Credit hours required in <b>general education</b>	24
Credit hours required in <b>program courses</b>	43
Credit hours in <b>program electives/concentrations/tracks</b>	
Credit hours in <b>free electives</b>	
Credit hours in <b>required research/thesis</b>	
<b>Total Credit Hours Required for Completion</b>	<b>67</b>

Note: The above credit hours **MUST** match the credit hours in the *Curriculum Components of Proposed Program* table in Section V.G.

B. Maximum number of credits that can be transferred in from another institution and applied to the program: 48 hrs.

C. Intended program duration in semesters for full-time students: 5

D. Intended program duration in semesters for part-time students: 11

E. Does the program require students to demonstrate industry-validated skills, specifically through an embedded industry-recognized certification, structured work-based learning with an employer partner, or alignment with nationally recognized industry standards? Yes  No

If yes, explain how these components fit with the required coursework.

Students will have the option to enroll in CIS 284 – Internship with a collaborating partner. Emphasis is placed on the student's "real world" work experience as it integrates theory and practice in the field of data analytics. The courses objectives include the following:

1. Build on classroom knowledge, while providing the Student/Intern the opportunity to learn



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disciplines, skills and attitudes which can best or only be learned on the job (ex. self-discipline teamwork, responsibility, and initiative.

2. Further develops practical skills in a real-world context.
3. Provide an opportunity to strengthen the Student/Intern's portfolio or resume with practical experience and projects.
4. Provide a learning experience for the student/Intern that can lead to entry level job opportunities within a company.

F. Does the program include any concentrations? Yes  No

If yes, provide an overview and identify these courses in the *Electives/Concentrations/Tracks* section in the Curriculum Components of Proposed Program Table in Section V.G.

G. Please provide all course information as indicated in the following table. Indicate new courses with "Y" in the associated column. If the course includes a required work-based learning component, such as an internship or practicum course, please indicate with a "Y" in the WBL column.

<b>Program Name:</b>	<b>Data Analytics</b>			
<b>Program Level:</b>				
<b>Curriculum Components of Proposed Program</b>				
<b>Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>New? (Y)</b>	<b>WBL? (Y)</b>
<b>General Education Courses (Undergraduate Only)</b>				
ENG 101	English Composition I	3		
ENG 102	English Composition II	3		
	ART 100, MUS 101, PHL 102, REL 151, REL 152. SPH 106, SPH 107 (Students may choose 3 hrs.)	3		
MTH 100	Intermediate College Algebra	3		
MTH 112	Pre-Calculus Algebra	3		
MTH 265	Introduction to Statistics	3		
ECO 232	Principles of Microeconomics	3		
	• ECO 231, HIS 101, HIS 102, HIS 121, HIS 122, HIS 201, HIS 202, PSY 200, PSY 210, SOC 200, POL 200, POL 211 (Students may choose 3 hrs)	3		
<b>Program Courses</b>				
ORI 101	Orientation to College	1		
CIS 117	Database Management Software	3		
CIS 146	Microcomputer Applications	3		
CIS 149	Introduction to Computers	3		
CIS 152	Introduction to Data Manipulation	3	Y	
CIS 201	Introduction to Computer Programming Concepts	3		
CIS 210	Introduction to R Programming	3	Y	
CIS 222	Database Management System	3		
CIS 225	Intro to SQL Programming	3		
CIS 240	AWS Data Engineering I	3	Y	
CIS 253	Introduction to Data Visualization	3	Y	



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CIS 238	AWS Cloud Computing	3		
CIS 235	Data Analytics I	3		
CIS 281	System Analysis & Design	3		
CIS 284 Or CIS 294	Internship Or Special Topics (Capstone Course)	3		Y
<b>Program Electives/Concentrations/Tracks</b>				
<b>Research/Thesis</b>				
<b>*Total Credit Hours Required for Completion</b>		<b>67</b>		

**\*Note:** The total credit hours should equal the total credit hours in the Curriculum Overview table (V.B, p. 9).



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## **New Academic Degree Program Summary/Business Plan**

Use the Excel form from ACHE's Academic Program webpage located at <https://www.ache.edu/index.php/forms/>, named **New Academic Degree Program Business Plan**, to complete the New Academic Program Degree Proposal.

Instructions and definitions are provided in the Excel file. **The New Academic Degree Program Business Plan should be uploaded as an Excel file (.xlsx) in the Academic Program Review (APR) Portal.**

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## **Steps for Submitting the New Academic Degree Proposal**

1. Complete the **New Academic Degree Proposal** document.
2. Attach the letters of support from external entities listed in *Section I.D.* at the end of the **New Academic Degree Proposal** document.
3. Save the **New Academic Degree Proposal** document as a **.pdf file**.
4. Complete the **New Academic Degree Program Business Plan** and save as an **.xlsx file**.
5. Login to the Academic Program Review (APR) Portal at [apr.ache.edu](http://apr.ache.edu) using your ACHE-provided login information. If you are not a designated user for your institution, contact your designated user.
6. Provide responses to questions in the APR Portal.
7. Upload the **New Academic Degree Proposal .pdf file** in the APR Portal.
8. Upload the **New Academic Degree Program Business Plan .xlsx file** in the APR Portal.
9. Click to "Validate" the proposal and then address any issues with your submission.
10. Once validation is clear, click "Review" to check your responses before submitting. If all looks good, click "Submit" at the bottom of the review screen.
11. The system will then prompt you to "Lock" the submission. Your proposal is considered submitted only once it has been locked within the APR Portal.

**→ Note: Proposals that have not been locked by the deadline will not be reviewed for inclusion on the next Commission agenda.**



## NEW ACADEMIC DEGREE PROGRAM PROPOSAL SUMMARY

INSTITUTION:: *Trenholm State Community College*

PROGRAM:

Select Level:

### ESTIMATED \*NEW\* EXPENSES TO IMPLEMENT PROPOSED PROGRAM

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
FACULTY		6144	6144	6144	6144	6144	6144	36864
STAFF								0
EQUIPMENT								0
FACILITIES								0
LIBRARY								0
ASSISTANTSHIPS								0
OTHER	500							500
<b>TOTAL</b>	<b>500</b>	<b>6144</b>	<b>6144</b>	<b>6144</b>	<b>6144</b>	<b>6144</b>	<b>6144</b>	<b>37364</b>

### \*NEW\* REVENUES AVAILABLE FOR PROGRAM SUPPORT

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
REALLOCATIONS								0
EXTRAMURAL								0
TUITION	50715	50715	65205	79695	94185	108675	123165	572355
<b>TOTAL</b>	<b>50715</b>	<b>50715</b>	<b>65205</b>	<b>79695</b>	<b>94185</b>	<b>108675</b>	<b>123165</b>	<b>572355</b>

### ENROLLMENT PROJECTIONS

*Note: "New Enrollment Headcount" is defined as unduplicated counts across years.*

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
FULL-TIME HEADCOUNT	Year 1 - No data reporting required	6	8	8	9	9	10	8.333333333
PART-TIME HEADCOUNT	Year 1 - No data reporting required	10	12	12	12	12	12	11.66666667
TOTAL HEADCOUNT	Year 1 - No data reporting required	16	20	20	21	21	22	20
NEW ENROLLMENT HEADCOUNT	Year 1 - No data reporting required	8	13	13	14	14	15	10.66666667

### DEGREE COMPLETION PROJECTIONS

*Note: Do not count Lead "0"s and Lead 0 years in computing the average annual degree completions.*

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
DEGREE COMPLETION PROJECTIONS	Year 1 - No data reporting required	5	6	6	8	10	10	7.5