JIMMY H. BAKER
Chancellor

BISHOP STATE PRELIMENARY REPORT FOR ACHE AND ACCS

Bishop State Instructions for the Curriculum and Program Review Committee:

After program approval from the President, the program contact should submit this document to the Curriculum and Program Review Committee (CPRC) and the Office of Instructional Services.

Approval confirmation and signatures after completion of this form:

Program Point of Contact: Dr. Jeremy Daughtry or Dr. Klaus Tenbergen

Signature: _____ Date: 05/12/25

CPRC Chair: Kim G. Smith

Signature: _____ Date: 05/12/25

Office of Instructional Services: Khalilah Burton

Signature: _____ Date: 05/13/25

Proposal for a New Degree Program

I. Information and Rationale

A. Primary Contact Information

Institution: Bishop State Community College

Contact: Dr. Jeremy Daughtry

Title: Associate Dean of Career and Technical Education

Email: jdaughtry@bishop.edu

Telephone: 251-405-7116

B. Program Information

Date of Proposal Submission: 5/9/2025

Award Level: Associate's Degree

Award Nomenclature (e.g., BS, MBA): AAS

Field of Study/Program Title: Aviation Manufacturing Technology

CIP Code (6-digit): 15.0801

C. Implementation Information

Proposed Program Implementation Date: Spring 2026

Anticipated Date of Approval from Institutional Governing Board: 6/2/2025

Anticipated Date of ACHE Meeting to Vote on Proposal: 6/13/2025

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. The Gulf Coast region, particularly Mobile, Alabama, is a nationally recognized hub for aerospace and aviation manufacturing. Companies such as Airbus, Collins Aerospace, and Continental Aerospace Technologies have established operations in the area, generating sustained demand for a skilled workforce trained in precision manufacturing, aerostructure assembly, and aircraft systems integration.
2. Industry partners have consistently identified a gap in qualified entry-level technicians, especially those with technical training and applied knowledge in aviation manufacturing processes.
3. Employers in the aviation manufacturing sector are increasingly seeking candidates with more comprehensive education that includes both technical proficiency and applied knowledge in areas such as quality control, safety standards, blueprint reading, and manufacturing processes. A full AAS degree enhances a student's readiness for a broader range of positions and responsibilities within the industry.
4. While a certificate offers entry-level skills, an associate degree equips students with broader competencies in quality control, aerospace systems, and production management. This improves graduates' competitiveness for higher-paying roles and positions them for career advancement within the aviation manufacturing sector.

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. Airbus
2. SNAP-ON Tools
3. Mobile County Public School System (MCPSS)
4. Mobile Engineering Aerospace (MAE) – ST Engineering
5. NC3 – National Coalition of Certification Centers
6. ATN
7. AIDT

II. Background with Context

A. Concise Program Description

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

Mid-Careers: This is a direct hire program with Airbus. Potential participants would apply through Airbus. Airbus then does interviews based on their set criteria (this is being 5 years of work experience in any field or 5 years' experience in manufacturing). Once participants complete the application, Airbus will review it, conduct interviews, and hire candidates. Those hired will complete a 10-week short certificate program with Bishop State, followed by on-the-job training.

Early -Careers: This is a direct hire program with Airbus. Interested participants will apply through Airbus once the application becomes available. Airbus conducts interviews based on their established criteria, typically targeting young individuals who are just entering the workforce. After applying, candidates are reviewed, interviewed, and selected for the program. Selected participants will first complete a 10-week short certificate program with Bishop State. Upon successful completion, they will advance to a 12-week apprenticeship program with AIDT, followed by 16 months of on-the-job training.

FlightPath9: This is a collaborative program between Flight Works Alabama, Bishop State, and local school districts, designed specifically for high school seniors. Classes are held two evenings a week at Bishop State's Southwest Campus. Selected students—chosen through an application and interview process—will take two courses each semester during their senior year (Fall and Spring). After graduating high school, they will complete two additional courses at Bishop State. FlightPath9 is a direct hire pathway into Airbus.

B. Student Learning Outcomes

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

1. Students will be able to demonstrate the use of basic measurement tools and gages and perform field checks.
2. Students will be able to understand the principles of threaded fasteners and torque and use varies types of torque tools.
3. Students will be able to use electrical measurement tools, including multimeter and insulation testers.
4. Students will be able to identify proper safety procedures and use in sheet metal assembly, apply layout techniques, and demonstrate measurement of components, drilling, and riveting techniques.

C. Administration of the Program

Name of Dean and College: Dr. Klaus Tenbergen, Dean of CTE, Bishop State

Name of Department/Division: Aviation

Name of Chairperson: Dr. Jeremy Daughtry, Associate Dean of CTE

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.

CIP Code	Degree Title	Institution with Similar Program	Justification for Duplication
15.0613	Advanced Manufacturing Technology	Bevil State	Bishop State's program is tailored to aeronautical/aerospace engineering technology (CIP 15.0801).
15.0613	Advanced Manufacturing Technology	Shelton State	Bishop State's program is tailored to aeronautical/aerospace engineering technology (CIP 15.0801).
47.0607	Airframe Technology	Coastal Alabama	Coastal Alabama's program focuses on the theory, maintenance, and repair of aircraft structures and systems.
47.0608	Powerplant Technology	Coastal Alabama	Coastal Alabama's program focuses on mechanical maintenance of powerplant components such as aircraft engines and propellers.

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	Process & Maintenance Technology	The proposed AAS utilizes coursework from the Process and Maintenance Technology technical core.

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.

The proposed Aviation Manufacturing Technology AAS utilizes existing Bishop State faculty, technology, and equipment from INT, IST, ELT, AMA, and general education.

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.

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 AMA courses are offered in-person at Bishop State's Southwest instructional site and the Faulkner Career Technical Center (dual enrollment) utilizing existing full-time and part-time faculty. The INT, ELT, and IST course work is offered in-person and hybrid at Bishop State's Downtown Campus. General Education coursework (outside of the natural science course which is completed at the Downtown Campus) may be completed at Bishop State's Southwest or Carver instructional sites. At this time, no course credit can be obtained through competence-based assessment.

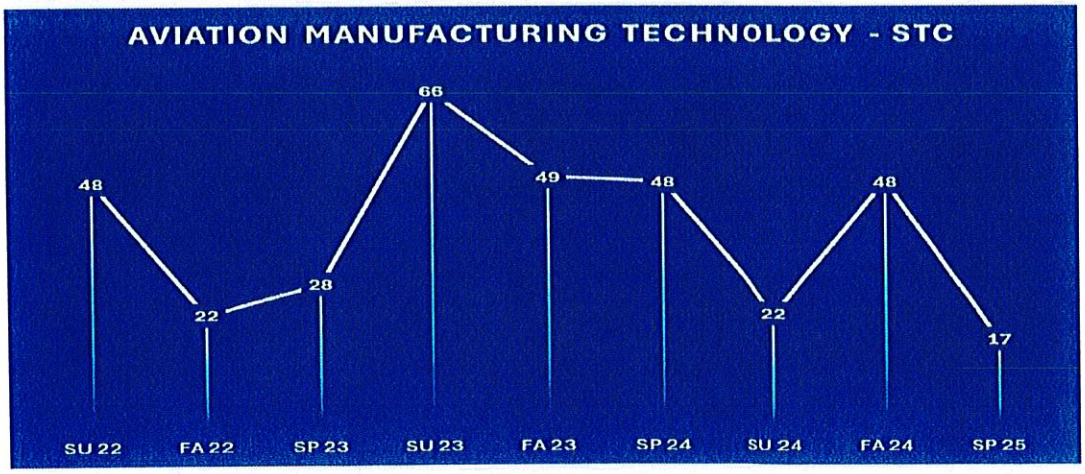
J. Projected Program Demand (Student Demand)

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.

Bishop State currently offers both a short certificate (16 credit hours) and a certificate option (46 credit hours) in Aviation Manufacturing Technology. According to institutional data pulled from the enterprise resource management system (Banner), from Summer 2022 to Spring 2025, demand for the short certificate pathway has been steady.

Aviation Manufacturing Technology - STC

SU 22	FA 22	SP 23	SU 23	FA 23	SP 24	SU 24	FA 24	SP 25
48	22	28	66	49	48	22	48	17



Source: Banner ARGOS Student Registration SU 22 – SP 25

Furthermore, Bishop State's aviation in-person Spring 2025 aviation advisory committee (consisting of approximately 22 members from aviation businesses, related industry, and educational partners) met on April 11, 2025, to review the current curriculum, facilities, equipment, certifications, and proposed Aviation Manufacturing Technology Associate of Applied Science degree pathway.

The advisory members were provided with an opportunity to provide feedback in-person and through a Microsoft Forms survey. The survey questions are included below:

Bishop State Aviation Advisory Committee Feedback Survey
Please help us enhance our program by providing critical feedback.

1. *We currently offer a Short Certificate (18 credit hours) and a Certificate in Aviation Manufacturing Technology (46 credit hours). Based on your review of these current degree offerings (links below), does the content we teach align with what you use in the industry?*

   Certificate in Aviation Manufacturing Technology (18 Credit Hours)
   http://catalog.bishop.edu/preview_program.php?catoid=14&poid=662&returnto=783

   Certificate in Aviation Manufacturing Technology (46 Credit Hours)
   http://catalog.bishop.edu/preview_program.php?catoid=14&poid=656&returnto=783

2. *Should Bishop State expand the current Aviation Manufacturing Technology program to include an Aviation Manufacturing Technology Associate of Applied Science (A.A.S.) option?*

3. *Do you believe spending time in class to observe theory and lab components would be beneficial to your evaluation of Bishop State's programs? If so, please let us know if you would be willing to participate.*

4. *Do Bishop State's students train on up-to-date aviation equipment?*

5. *Are Bishop State's aviation facilities adequate to train students?*

6. *What additional tools or equipment should Bishop State consider when adding new courses, skills, or certifications?*

7. *Are you interested in implementing student experiential learning opportunities such as work-based learning, pre-apprenticeships, apprenticeships, or internships?*

8. *Would you be interested in contributing to aviation-related scholarships and/or program support or sponsorships?*

9. *How can Bishop State streamline access to employment opportunities with your company?*

10. *Do you have an interest in serving as a part-time faculty member, guest speaker, or assisting with arranging industry tours for students?*

11. .*How can Bishop State assist with hosting a career fair and/or aviation exploration day (National Aviation Day: Tuesday, August 19, 2025)?*

12. *Would you be interested in creating a summer faculty internship/exchange program?*

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)
Dewayne Bowers (FT)	AMA 101 – Personal Success I (3 credits) AMA 110 – Precision Measurement & Quality Control (3 credits) AMA 111 – Aerostructure Assembly I (3 credits) AMA 112 – Aviation Electrical Measurement, Terminations, & Intro to Lean Manufacturing (3 credits) AMA 211 – Aerostructure Assembly II (3 credits) AMA 212 – Personal Success II & Intro to Aviation Electrical Assembly (3 credits)	Associate Degree in Electronic Technology, RETS Electronics Institute	NC3 SNAP-ON Certifications for Aviation Maintenance Technology
Diana Black (FT)	AMA 101 – Personal Success I (3 credits, UN) AMA 110 – Precision Measurement & Quality Control (3 credits, UN) AMA 111 – Aerostructure Assembly I (3 credits, UN) AMA 112 – Aviation Electrical Measurement, Terminations, & Intro to Lean Manufacturing (3 credits, UN) AMA 211 – Aerostructure Assembly II (3 credits, UN) AMA 212 – Personal Success II & Intro to Aviation Electrical Assembly (3 credits, UN)	Bachelor of Arts in History/General Studies University of South Alabama Bachelor of Science in Communications University of South Alabama	NC3 SNAP-ON Certifications for Aviation Maintenance Technology
Deland Mounce (FT)	AMA 101 – Personal Success I (3 credits, UN) AMA 110 – Precision Measurement & Quality Control (3 credits, UN) AMA 111 – Aerostructure Assembly I (3 credits, UN) AMA 112 – Aviation Electrical Measurement, Terminations, & Intro to Lean Manufacturing (3 credits, UN) AMA 211 – Aerostructure Assembly II (3 credits, UN) AMA 212 – Personal Success II & Intro to Aviation Electrical Assembly (3 credits, UN)	Bachelor of Science in Aviation Maintenance Management Liberty University FAA A&P License Enterprise-Ozark Community College	NC3 SNAP-ON Certifications for Aviation Maintenance Technology

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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)
Ernest Sheffield (FT)	AMA 101 – Personal Success I (3 credits, UN) AMA 110 – Precision Measurement & Quality Control (3 credits, UN) AMA 111 – Aerostructure Assembly I (3 credits, UN) AMA 112 – Aviation Electrical Measurement, Terminations, & Intro to Lean Manufacturing (3 credits, UN) AMA 211 – Aerostructure Assembly II (3 credits, UN) AMA 212 – Personal Success II & Intro to Aviation Electrical Assembly (3 credits, UN)	Aircraft Systems Maintenance Technology Community College of the Air Force	NC3 SNAP-ON Certifications for Aviation Maintenance Technology
James Scott (FT)	INT 117 – Principles of Industrial Mechanics (3 credits, UN) INT 129 – Industrial Safety and Maintenance Techniques (3 credits, UN) IST 167 – Industrial Measurement (5 credits, UN)	Master of Science in Mathematics University of West Alabama Bachelor of Science in Chemical Engineering Tuskegee University	MSSC CPT Maintenance Awareness Certification MSSC Safety Certification MSSC CPT Quality Certification MSSC CPT Process and Production Certification
Bobby Lennox (FT)	IST 233 – Unit Operations (3 credits, UN) IST 137 – Industrial Process Equipment (3 credits, UN)	Master of Science in Electrical Engineering Tuskegee University Bachelor of Science in Electrical and Computer Engineering Auburn University	MSCC CPT Maintenance Awareness Certification MSSC Safety Certification MSSC CPT Quality Certification MSSC CPT Process and Production Certification
Raquel Marshall (FT)	ELT 108 – DC Fundamentals (3 credits, UN) ELT 109 – AC Fundamentals (3 credits, UN) ELT 117 – AC/DC Machines (3 credits, UN)	Master of Science in Electrical Engineering Tuskegee University	
Additional Faculty (To Be Hired)			
1	2	3	4

Employment Status of Program Personnel		Personnel Information		
		Count from Proposed Program Department	Count from Other Departments	Subtotal of Personnel
Current	Full-Time Faculty	4	3	7
	Part-Time Faculty			
	Administration	2		2
	Support Staff	3		2
**New To Be Hired	Full-Time Faculty			
	Part-Time Faculty			
	Administration			
	Support Staff			
			Personnel Total	11

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)
FACULTY POSITION (FT, PT)	COURSES TO BE 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)

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.

B. All Proposed Program Personnel

Provide all personnel counts for the proposed program.
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.

In terms of the program's qualified technical faculty, Bishop State currently has four full-time aviation faculty (Dewayne Bowers, Deland Mounce, Diana Black, and Ernest Sheffield). All have earned the NC3 SNAP-ON certifications that are awarded through the AMA courses within program. Additionally, there are three full-time faculty members in advanced manufacturing who are qualified to teach courses across the ELT, IST, and INT

curriculums (James Scott, Bobby Lennox, and Raquel Marshall). Moreoever, Bishop State has adequate full-time and part-time faculty who hold qualifications across the required hours in general education courses.

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.**

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.

Bishop State Community College provides its students, faculty, and staff access and user privileges to both traditional and technological library collections and learning/information resources. Bishop State libraries provide facilities, services, and resources that support the College's mission. Each campus has a Library/LRC that provides materials to support the college curriculum.

Additionally, through access to the internet, the Governor of Alabama and the Alabama Legislature have provided for all public, K-12, two-year and four-year college and university libraries with Alabama Virtual Library, a collection of approved databases that have full-text magazine, journal, and newspaper articles for research. There are over 50 resources available through the Alabama Virtual Library including business, nursing, encyclopedias, literature, and others.

Will additional library resources be required to support the program? **Yes ☐ No ☒**

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

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?

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/.

SOC 1 (**required**): 51-2011

SOC 2 (*optional*): 49-3011

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 state's regional advisory board for Region 7, which includes Mobile, AL, has identified aviation and aerospace as key industry clusters in Southwest Alabama, recognizing their significant role in the region's economic development. The region is part of the third-largest aviation corridor in the world, hosting major employers such as Airbus, Collins Aerospace, and VT Mobile Aerospace Engineering. These companies require a skilled workforce proficient in areas like aircraft maintenance, avionics, and manufacturing processes. By introducing an AAS in Aviation Manufacturing Technology, educational institutions can directly contribute to meeting the workforce demands of Mobile's aviation sector.

B. Employment Preparation

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

Standard Occupational Classification (SOC) codes **51-2011** and **49-3011** refer to occupational roles that are directly aligned with the skills and training provided by an **Associate of Applied Science (AAS) in Aviation Manufacturing Technology**, making graduates well-prepared for employment in these fields. These workers assemble, fit, and install parts of aircraft, such as fuselage, wings, and landing gear, using hand tools, power tools, and assembly jigs. In terms of skills alignment, students who complete the program will be able to use structural assembly and blueprint interpretation, utilize precision measuring tools and manufacturing equipment, and will understand manufacturing sector standards compliance. Students will be able to understand electrical systems and schematics.

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.

Graduates of the Aviation Manufacturing Technology Associate of Applied Science program are required to earn **NC3 Snap-on certifications**, which provide industry-recognized credentials that validate their proficiency with precision measurement tools, torque applications, and mechanical fundamentals. These certifications, developed in partnership with Snap-on—a global leader in professional tools and

equipment—are widely respected by employers in the aviation and advanced manufacturing sectors. By incorporating NC3 certifications into the program, graduates demonstrate hands-on competency and job readiness, giving them a competitive advantage when seeking **entry-level employment** in roles such as aircraft assembly, maintenance, and systems installation. These credentials ensure that graduates meet the skill expectations of industry partners in Mobile and the broader SAWDC Region 7 workforce.

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.

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 **general education**	16
Credit hours required in **program courses**	46
Credit hours in **program electives/concentrations/tracks**	0
Credit hours in **free electives**	0
Credit hours in **required research/thesis**	0
Total Credit Hours Required for Completion	**62**

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: 19 (general education credit hours and ORI 105)

C. Intended program duration in semesters for full-time students: 4 semesters

D. Intended program duration in semesters for part-time students: 8 semesters

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.

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.

Program Name:	**Aviation Manufacturing Technology**			
Program Level:	**Associate of Applied Science**			
Curriculum Components of Proposed Program				
Course Number	**Course Title**	**Credit Hours**	**New ? (Y)**	**WBL ? (Y)**
General Education Courses *(Undergraduate Only)*				
ENG 101 or ENG 131	ENG 101: English Composition I or ENG 131: Technical English	3	N	N
Humanities	Choose one humanities course.	3	N	N
Behavioral Science	Choose one history, social, or behavior science.	3	N	N
Mathematics	Must complete MTH 100: Intermediate College Algebra or higher.	3	N	N
Natural Sciences	Choose one course from PHS 111: Physical Science, PHS 112: Physical Science II, or PHY 115: Technical Physics.	4	N	N
Program Courses				
AMA 101	Personal Success I, Industrial Safety and Intro to Aviation and Aviation Manufacturing	3	N	N
AMA 111	Aerostructure Assembly I	3	N	N
AMA 112	Aviation Electrical Measurement, Terminations, and Intro to Lean Manufacturing	3	N	N
AMA 212	Personal Success II and Intro to Aviation Electrical Assembly	3	N	N
AMA 211	Aerostructure Assembly II	3	N	N
AMA 110	Precision Measurement and Quality Controls	3	N	N
ORI 105	Orientation and Student Success	3	N	N
Electrical	Choose either ELT 108: DC Fundamentals or ELT 109: AC Fundamentals.	3	N	N
IST 233	Unit Operations	3	N	N
INT 117	Principles of Industrial Mechanics	3	N	N
INT 129	Industrial Safety and Maintenance Techniques	3	N	N
IST 137	Industrial Process Equipment	5	N	N
IST 167	Industrial Measurement	5	N	N
ELT 117	AC/DC Machines	3	N	N
Program Electives/Concentrations/Tracks				

Research/Thesis				
***Total Credit Hours Required for Completion**	**62**			

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

New Academic Degree Program Summary/Business Plan

Use the Excel form from for **New Academic Degree Program Business Plan**, to complete the New Academic Program Degree Proposal.

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 **WORD FILE.**
4. Complete the **New Academic Degree Program Business Plan** and save as an **.xlsx file.**

ACADEMIC DEGREE PROGRAM PROPOSAL SUMMARY

INSTITUTION:	**Bishop State Community College**		
PROGRAM NAME:	**Aviation Manufacturing Technology**	**CIP CODE:**	**15.0801**
SELECT LEVEL:	**UNDERGRADUATE (ASSOCIATE)**		

ESTIMATED *NEW* EXPENSES TO IMPLEMENT PROPOSED PROGRAM

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
FACULTY	$96,000	$97,920	$99,878					$293,798
ADMINISTRATION/STAFF								$0
EQUIPMENT	$10,000	$12,000	$14,000					$36,000
FACILITIES								$0
ASSISTANTSHIPS/FELLOWSHIPS								$0
LIBRARY								$0
ACCREDITATION AND OTHER COSTS								$0
TOTAL EXPENSES	$106,000	$109,920	$113,878	$0	$0	$0	$0	**$329,798**

NEW REVENUES AVAILABLE FOR PROGRAM SUPPORT

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
REALLOCATIONS								$0
EXTERNAL FUNDING								$0
TUITION + FEES		$307,800	$318,600	$329,400	$329,400	$340,200	$351,000	$1,976,400
TOTAL REVENUES	$0	$307,800	$318,600	$329,400	$329,400	$340,200	$351,000	**$1,976,400**

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 ENROLLMENT HEADCOUNT	No data reporting	12	14	16	16	18	20	**16.00**
PART-TIME ENROLLMENT HEADCOUNT		75	75	75	75	75	75	**75.00**
TOTAL ENROLLMENT HEADCOUNT		87	89	91	91	93	95	**91.00**
***NEW* ENROLLMENT HEADCOUNT**		12	14	16	16	18	20	**16.00**
Validation of Enrollment			**YES**	**YES**	**YES**	**YES**	**YES**	

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	No data reporting	9	11	12	12	14	15	**12.17**

Aviation ManufacturingTechnology

Associate of Applied Science (A.A.S.)

CIP Code: 15.0801

BISHOP STATE

Lab Hrs = 2:1

Semester 1

Course #	Course Name	Credits	Theory	Lab	Contact Hrs	Industry Certifications & Credentials
AMA 101	Personal Success I, Industrial Safety and Intro to Aviation and Aviation Manufacturing	3	3	0	3	NC3: SNAP-ON Tools @ Height:Drop Prevention Systems Certification; NC3: SNAP-ON Hand Tool Identification, Safety and Usage Certifications (Tool ID 1:Screwdrivers, Tool ID 2: Wrenches, Tool ID 3:Cutters and Pliers; Tool ID 4: Ratchets, Sockets, and Extensions; Tool ID 5:Hammers, Punches, and Chisels), NC3: SNAP-ON Electrical Safety Certificate of Knowledge, NC3: SNAP-ON Hand Tool Safety Certificate of Knowledge, OSHA 10 General Industry Certification
AMA 111	Aerostructure Assembly I	3	2	1	3	NC3: SNAP-ON Mechanical Torque Certification; NC3: SNAP-ON Electronic Torque Certification; NC3: SNAP-ON Torque Application Procedures Certification
ORI 105	Orientation and Student Success	3	3	0	0	
AMA 112	Aviation Electrical Measurement, Terminations, and Intro to Lean Manufacturing	3	2	1	3	NC3: SNAP-ON 525F Multimeter Certification; NC3: SNAP-ON Electricity Introduction, Measurements, and Circuits Certification
AMA 212	Personal Success II and Intro to Aviation Electrical Assembly	3	2	1	3	NC3: SNAP-ON Precision Electrical Termination Certification
	TOTAL SEMESTER CREDITS	15	12	3	12	

Semester 2

Course #	Course Name	Credits	Theory	Lab	Contact Hrs	Industry Certifications & Credentials
AMA 110	Precision Measurement and Quality Controls	3	2	1	3	NC3:SNAP-ON Precision Measurement Instruments Certifications (PMI 1: Tape and Rule Measurements; PMI 2: Slide Caliper Measurements; PMI 3: Gage Measurements; PMI 4: Angle Measurements; PMI 5: Micrometer Measurements; PMI 6: Dial Gage Measurements)
AMA 211	Aerostructure Assembly II	3	3	2	5	NC3: SNAP-ON Structural Sheetmetal Assembly Certification
Electrical	Choose either ELT 108: DC Fundamentals or ELT 109: AC Fundamentals.	3	1	2	5	
Humanities	Choose one humanities course.	3	3	0	0	
Mathematics	Must complete MTH 100 or higher	3	3	0	3	
	TOTAL SEMESTER CREDITS	15	12	5	16	*Eligible for Aviation Manufacturing Technology Short Certificate*

Semester 3

Course #	Course Name	Credits	Theory	Lab	Contact Hrs	Industry Certifications & Credentials
IST 233	Unit Operations	3	2	1	5	MSSC CPT Processes and Production
English Composition	ENG 101 or ENG 131	3	3	0	3	
INT 117	Principles of Industrial Mechanics	3	2	1	4	MSSC CPT Maintenance Awareness
INT 129	Industrial Safety and Maintenance Techniques	3	2	1	4	MSSC CPT Safety
Natural Sciences	Choose one course from PHS 111: Physical Science, PHS 112: Physical Science II, or PHY 115: Technical Physics.	4	3	2	5	
	TOTAL SEMESTER CREDITS	16	12	5	21	

Semester 4

Course #	Course Name	Credits	Theory	Lab	Contact Hrs	Industry Certifications & Credentials
IST 137	Industrial Process Equipment	5	3	2	7	
IST 167	Industrial Measurement	5	3	2	7	MSSC CPT Quality
ELT 117	AC/DC Machines	3	1	2	5	
Behavioral Science	Choose one history, social, or behavioral science course.	3	3	0	0	
	TOTAL SEMESTER CREDITS	16	10	6	19	*Eligible for Aviation Manufacturing Technology Certificate, Introduction to Manufacturing Technology Short Certificate, and Aviation Manufacturing Technology Associate of Applied Science.*

*Upon completion of the program, students will earn an Introduction to Manufacturing Technology Short Certificate, Aviation Manufacturing Technology Short Certificate, Aviation Manufacturing Technology Certificate, and Aviation Manufacturing Technology Associate of Applied Science degree.

Program Totals			
62	46	19	68
Credits	Theory	Lab	Contact Hrs

Snap-on Industrial

May 6, 2024

President Olivier Charles

Bishop State Community College

351 N Broad Street

Mobile, AL 36603

Dear President Charles:

I am writing to express the support of Snap-on Industrial for Bishop State Community College and the Alabama Community College System proposal of expanding the Mobile area aviation ecosystem. As the facility would be dedicated to produce skilled individuals in the field of aviation careers, it will help to address and enable the ability to train locally for many in-demand aviation industry careers along the Gulf Coast.

Snap-on Incorporated is a leading global innovator, manufacturer and marketer of tools, equipment, diagnostics, repair information and systems solutions for professional users performing critical tasks.

I look forward to continuing to assist Bishop State Community College to meet the crucial educational training needs and demands of the aviation industry along the Gulf Coast.

Sincerely,

Mark A. Olson

Snap-on Industrial Account Manager South Alabama & Florida Panhandle

"We must recognize technical careers as what they have always been- the building blocks of American prosperity. It is imperative that we enlist our young people in those technical careers as a national calling, and we must embrace technical education...the wellspring of those professions...as a national priority." **Nick Pinchuk, Chairman and CEO, Snap-on Incorporated**

AIRBUS

March 23, 2023

Chancellor Jimmy Baker
Alabama Community College System
Post Office Box 302130
Montgomery, Alabama 36130-2130

Dear Chancellor Baker,

Since 2015, Airbus has been delivering aircraft from the Mobile Manufacturing Site at the Brookley complex, and today, our facility employs more than 1,500 people. We expect continued growth as our workforce demand continues to increase to support our production ramp-up of the A320 and A220 family of aircraft.

To meet these projected resource requirements, Airbus is investing heavily in its workforce development strategy. In addition to our ongoing relationship with AIDT, Airbus has also partnered with Bishop State Community College and Coastal Alabama Community College to prepare individuals who are interested in joining our workforce. These programs, the Aviation Manufacturing Technology short certificate and the A&P mechanical training program, are and will continue to serve as pipelines into our registered apprenticeship programs and other direct employment opportunities at Airbus.

As we continue to grow our footprint and the number of aircraft delivered each year, our need for skill workers grows as well. We fully support the development and construction of a new state-of-the-art technical training facility at the Mobile Aeroplex at Brookley and we look forward to working with your teams to create or modify programs that meet both our current and future needs.

Sincerely,

Stephanie Burt
Head of Human Resources
Airbus
Mobile Manufacturing Site

Airbus Americas, Inc.

Manufacturing Center
320 Airbus Way
Mobile, Alabama 36615
http://www.airbus.com/

aidt
citizen | company | aidt
together we create workforce

334.280.4400
one technology court
montgomery, al USA 36116-3200
www.aidt.edu

March 29, 2023

RE: Aviation Training facility in South Alabama Support Letter

Dear President Charles:

Please accept this letter in support of the proposal submitted by Bishop State Community College & the Alabama Community College System to develop a new, state-of-the-art aviation training facility in Mobile, Alabama. A local, training facility would enable citizens in south Alabama to train for many in-demand, aviation careers, allowing companies to meet their current and future headcount goals.

Without hesitation, we support the efforts of both Bishop State Community College & the Alabama Community College System, as they pursue this opportunity. We encourage thoughtful consideration and look forward to hearing about its success.

Sincerely,

Ashley Phillips
Assistant Director – South Alabama
AIDT

March 30, 2023

President Olivier Charles
Bishop State Community College
351 N Broad Street
Mobile, AL 36603

Dear President Charles:

I am writing to express the support of Snap-on Industrial for Bishop State Community College and the Alabama Community College System proposal of expanding the Mobile area aviation ecosystem.

As the proposed facility would be dedicated to produce skilled individuals in the field of aviation careers, it will help to address and enable the ability to train locally for many in-demand aviation industry careers along the Gulf Coast.

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South Alabama & Florida Panhandle

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Nick Pinchuk, Chairman and CEO, Snap-on Incorporated

Faulkner career technical center

From the Desk of....
JASON LAFFITTE, ED.D.

MEMORANDUM

To: Dr. Olivier Charles, President of Bishop State Community College
From: Jason Laffitte, Ed.D.
Date: Monday, April 3, 2023
Re: Letter of Support

Dear President Charles,

Faulkner Career Technical Center fully supports the potential expansion of the Mobile area Aviation ecosystem. Our school is aware that Bishop State and the Alabama Community College System are in the early planning stages of development for a new state of the art facility that will allow Bishop State to meet the training needs and demands of the aviation industry along the gulf coast. The construction of this new facility would allow students to train locally for many of the in-demand careers in the aviation industry, giving local companies the ability to hand pick their future employees and upskill their current employees. This new facility would also allow for expansion of training streams to help grow local business and allow employees to expand their current skill set to better fit industry needs inside of our local region. Faulkner Career Technical Center supports this endeavor as Bishop State Community College looks to expand their current aviation manufacturing technology program and help to grow the aviation ecosystem in South Alabama.

Sincerely,

Jason Laffitte, Ed.D.

Principal

Faulkner Technical Center

ALABAMA TECHNOLOGY NETWORK

April 4, 2023

Gillette Samms
Director of Aviation Programs
Alabama Community College System

RE: Letter of Support for an Aviation Training Facility in Mobile, AL

Dear Gillette:

The aviation ecosystem in SW Alabama is ever expanding with companies like Airbus, Continental Motors, Certified Aviation Systems and Collins Aerospace continuing to partner with both Bishop State and Coastal Alabama Community Colleges. The long-term hiring needs for these companies will stress the local capacity for training future employees. The need for aviation manufacturing technicians and A&P mechanics is growing at a rapid pace.

Having worked closely with the local aviation companies, it has become apparent the needs of the companies will soon exceed the capability of the facilities of both local Communities Colleges. I fully support the development and construction of new technical training facility at the Mobile Aeroplex at Brookley to meet the needs the local aviation companies in SW Alabama.

Please let me know if you have any questions or would like to discuss further.

Brad James
ATN Center Director
Mobile, Thomasville, Brewton

ST Engineering

4/4/2023

Erica Gilkerson
351 N Broad Street
Mobile, AL 36603

RE: Letter of support for Bishop State

Dear Erica,

Mobile Engineering Aerospace (MAE) has been maintaining airplanes in Mobile, AL for over 30 years. Paired with this successful history, we are looking forward to a bright future. We expect our demand for skilled workers to remain steady well into the foreseeable future.

MAE is committed to workforce development and training. Our desire is for our employees to experience meaningful and challenging work that allows them to reach their fullest potential. We desire to partner with school and programs like Bishop State to grow local AMT talent pools. This is a vital pipeline for our apprenticeship and leadership development programs.

We look forward to working with you, your staff, and the leadership at Bishop State to continue this essential program.

Sincerely,

Ryan Lee
Sr. Director
Human Resources,
Talent Acquisition and Development

ST Engineering

4/4/2023

Erica Gilkerson
351 N Broad Street
Mobile, AL 36603

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Sincerely,

Ryan Lee
Sr. Director
Human Resources,
Talent Acquisition and Development

NATIONAL COALITION OF CERTIFICATION CENTERS
LEARNING THAT WORKS. SM

May 22, 2023

I am pleased to be writing a letter in support for the Workforce Development grant being submitted by Bishop State Community College (BSCC) to the of the Alabama Community College System to provide funds to purchase equipment to expand BSCC's educational programs. BSCC is planning to incorporate certification programs such as these National Coalition of Certification Centers (NC3) stackable certifications: Snap-on's Hand Tool Identification and Safety, Snap-on's Electricity Introduction, Measurement, and Circuits and 3M's Personal Protective Equipment (PPE). This will not only expand the offerings for BSCC's aviation program but also allow students in other Career Technical disciplines to be trained and earn credentials of value.

NC3 has been working with Bishop State Community College for over five years and they are one of NC3's Leadership Schools. We have witnessed their dedication and expertise in the field of Career Technical Education (CTE) including Advanced Manufacturing and Aviation Technology. BSCC has made significant contributions to provide the State of Alabama with a sustainable and highly-skilled workforce.

This proposed grant will provide BSCC with the opportunity to purchase educational equipment that will allow them to expand their reach into many other CTE programs such as Automotive Technology, Diesel Technology, A/C & Refrigeration Technology and Electrical Technology. It will also expand their dual enrollment programs in partnership with local high schools. This expansion will also have a positive impact on the students and prospective employers by providing creating highly-skilled and job-ready professionals.

NC3 is confident that Bishop State Community College has the staff, qualifications and abilities to successfully complete this project measured by the number of students that they are able to expose to basic industry needs, earn credentials and place into desired careers We strongly endorse this grant application and urge you to approve it.

Sincerely,

Frank van den Berge
Program Manager | Snap-on, Starrett & DMC
frank.vandenberge@nc3.net

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