Proposal for a New Degree Program

I. Information and Rationale

A. Primary Contact Information
   Institution: University of West Alabama
   Contact: Bliss Adkison
   Title: Director, Institutional Effectiveness, and Strategic Planning
   Email: badkison@uwa.edu
   Telephone: 205-652-3912

B. Program Information
   Date of Proposal Submission: 12/8/2023
   Award Level: Bachelor's Degree
   Award Nomenclature (e.g., BS, MBA): BS
   Field of Study/Program Title: Electrical Engineering Technology
   CIP Code (6-digit): 15.0303

C. Implementation Information
   Proposed Program Implementation Date: 8/1/2024
   Anticipated Date of Approval from Institutional Governing Board: 11/16/2023
   Anticipated Date of ACHE Meeting to Vote on Proposal: 3/8/2024
   SACSCOC Sub Change Requirement (Notification, Approval, or NA): Notification
   Other Considerations for Timing and Approval (e.g., upcoming SACSCOC review):
   The institution has determined that a SACSCOC Sub-Change is not needed for this proposal. The program is offering less than 24% of new content within the newly created degree program. Content is being repackaged from existing courses/content in order to create the curriculum for the program

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. [Hands on experience with Electrical Engineering Technology: Implementation of electrical engineering concepts and techniques through hands on labs, as well as projects]
   2. [Increase Employability: Curriculum has been designed with input from industry leaders to better accommodate the needs of modern industry demands.]
3. [Serving an Underserved Area: The University of West Alabama is located in a rural area. A Electrical Engineering Technology program will allow students to build worldwide connections with members from Institute of Electrical Electronics Engineers (IEEE), and various other professional organizations.]

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. [Unanimously Approved by all 14 companies, and the Dept. of Labor, of UWA’s Engineering and Technology Industrial Advisory Board consisting of Two River’s Lumber, United Rentals,]
2. [MBUSI, BF Goodrich, Nucor Steel, Lavender Inc., Volkert Engineering, Alabama Power,]
3. [International Paper, WestRock (Demopolis and Eutaw), Georgia Pacific, Westervelt, and Prystup Packaging]

II. Background with Context

A. Concise Program Description

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

The mission of the Bachelor of Science in Electrical Engineering Technology program will provide modern, innovative, and performance-based education to solve problems in current and emerging engineering technologies topics. The Electrical Engineering Technology degree prepares a diverse student population with a background in electrical engineering technology courses by combining hands-on laboratory training with mathematics, science, and general education.

Successful graduates often seek employment in fields such as engineering, construction, manufacturing and operations, and maintenance.

B. Student Learning Outcomes

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

The following Learning Outcomes are determined by the Accrediting Board of Engineering and Technology (ABET) at www.ABET.org.

Students enrolled in the program will have;

1. [an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline.]
2. [an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline.]

3. [an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.]

4. [an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.]

5. [an ability to function effectively as a member as well as a leader on technical teams.]

C. Administration of the Program

Name of Dean and College: Division of Engineering and Technology
Name of Department/Division: Division of Engineering and Technology
Name of Chairperson: Dr. Donnie Cobb

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.

<table>
<thead>
<tr>
<th>CIP Code</th>
<th>Degree Title</th>
<th>Institution with Similar Program</th>
<th>Justification for Duplication</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (AAS)</td>
<td>Bishop State CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (CERT)</td>
<td>Bishop State CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (AAS)</td>
<td>Calhoun CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (CERT)</td>
<td>Calhoun CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (AAS)</td>
<td>Drake CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electrical Engineering Technology (CERT)</td>
<td>Drake CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electronic Engineering Technology w/ emp in Mechatronics Advanced Automation / Engineering Technology emphasis in Advanced Robotics (STC)</td>
<td>Gadsden CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electronics Engineering Technology (AAS)</td>
<td>Gadsden CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electronics Engineering Technology (CERT)</td>
<td>Gadsden CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electronics (STC)</td>
<td>Jefferson State CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
<tr>
<td>15.0303</td>
<td>Electronic Engineering Technology (STC)</td>
<td>Lawson CC</td>
<td>Industry/Advisory Board request UWA offer a bachelor's degree</td>
</tr>
</tbody>
</table>
The following programs were found at www.ABET.org, not SREB.

<table>
<thead>
<tr>
<th>Program Title</th>
<th>Location</th>
<th>Industry/Advisory Board request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical, Electronic and Communications Engineer Technology/Technician (STC)</td>
<td>Wallace State Hanceville CC</td>
<td>UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology AAS</td>
<td>Central Piedmont C.C. – N.C.</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology BS</td>
<td>Kennesaw State Univ. – Ga.</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology AAS</td>
<td>Southwest Tennessee C.C.</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology BS</td>
<td>Oklahoma State Univ.</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology BS</td>
<td>South Carolina State Univ.</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology BS</td>
<td>University of Maine</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
<tr>
<td>Electrical Engineering Technology BSET</td>
<td>University of North Carolina at Charlotte</td>
<td>Industry/Advisory Board request UWA offer a bachelor’s degree</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Related Degree Program Level</th>
<th>Related Degree Program Title</th>
<th>Explanation of the Relationship Between the Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS</td>
<td>Engineering Technology</td>
<td>The EET degree stems from existing ET degree, but more specialized for Electrical Engineering Technology per industry request,</td>
</tr>
</tbody>
</table>

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. Currently, UWA’s BS in Engineering Technology includes Electrical and Mechanical Engineering Technology courses. Our Industrial Advisory board has requested and approved that we offer a BS in Electrical Engineering Technology for graduates to be more prepared for Electrical Engineering jobs. The BS in Electrical Engineering Technology offers applied training. Some companies such as MBUSI do not recognize the BS in Engineering Technology as an engineering degree that meets the requirements for Engineering
positions. However, MBUSI hires Electrical Engineering Technologist from other states.

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.

**No collaboration external to UWA has been explored at this time, but the institution is open to future collaboration.**

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.

**Collaboration with the Math and Science departments for ABET requirements for Calculus and Physics.**

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.

   **Accrediting Board of Engineering and Technology (ABET)**
   According to ABET requirements, UWA will apply for accreditation when a student graduates from the degree program.

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.

All courses are offered in-person and some courses will have an online option.

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.

Current students in the existing BS in Engineering Technology program have been surveyed. This survey indicated that 30% of students were interested in the proposed EET degree program. Alumni from the institution also indicated that the proposed new program will be beneficial for the new students as it would better suit the industry needs. UWA’s industrial advisory board (containing 14 companies + Dept. of Labor) unanimously supports the inclusion of the EET 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.
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<th>1</th>
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<tbody>
<tr>
<td><strong>CURRENT FACULTY NAME</strong>&lt;br&gt;(FT, PT)</td>
<td><strong>COURSES TAUGHT</strong>&lt;br&gt;including Term, Course Number, Course Title, &amp; Credit Hours (O, UN, UT, G, DU)</td>
<td><strong>ACADEMIC DEGREES AND COURSEWORK</strong>&lt;br&gt;Relevant to Courses Taught, including Institution and Major; List Specific Graduate Coursework, if needed</td>
<td><strong>OTHER QUALIFICATIONS AND COMMENTS</strong>&lt;br&gt;Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)</td>
</tr>
<tr>
<td>Dr. Winston Donnie Cobb (FT)</td>
<td>All Below Courses UT ET 230 Print Reading and CAD (3) Fall/Spring Campus and Online ET 334 CAD for Industry (3) Fall/Spring Campus and Online ET 400 Project Mgt. for Eng. and Tech. (3) Spring 2024 ET 460 Internship (3) Fall/Spring/Summer ET 491 Senior Project (3) Fall/Spring/Summer Previous courses taught: ET 101 Introduction to Engineering Technology CET 215 Network Maintenance and Support (3)</td>
<td>Ph.D. Instructional Systems and Workforce Development. Mississippi State University Coursework in Technology, Computer Networking, and Administration MSCE Degree Concentration in Industrial Technology Livingston University (Now University of West Alabama) BS Industrial Technology Education Livingston University (Now University of West Alabama)</td>
<td>6 yrs. Full time in Engineering and Design Thirteen weeks (40 hrs. per week) training with Intergraph Corp. in CAD, Computer Networking, and Mapping (GIS) Experience in Computer Networking with UWA</td>
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<td>OTHER QUALIFICATIONS and COMMENTS Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)</td>
</tr>
<tr>
<td>Dr. Narendra Subrahmanya Datta (FT)</td>
<td>ET 221 AC/Dc Theory I (3) Fall and Online</td>
<td>Ph.D., Aerospace Engineering and Mechanics University of Alabama</td>
<td>Dr. Datta taught undergraduate, graduate courses in Engineering discipline for more than 4 years at University of Alabama (Tuscaloosa). In between his degrees, Dr. Datta had worked for 4 years in industry involving electrical, electronics, mechanical and software engineering disciplines. Some of his clients include Hitachi, British Petroleum, Hunter Engineering, Boeing, Raytheon, Booz Allen Hamilton.</td>
</tr>
<tr>
<td></td>
<td>ET 222 Solid State Electronics (3) Spring and Online</td>
<td>M.S., Aerospace Engineering and Mechanics University of Alabama</td>
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<td></td>
<td>ET 271 Electrical Motor Controls (3) Spring</td>
<td>B.S., Electrical and Electronics Engineering Jawaharlal Nehru Technological University, India</td>
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<td>ET 272 Electromechanical Controls (3) Fall</td>
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<td>ET 281 Programmable Logic Controls I (3) Spring and Online</td>
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<td>ET 282 Programmable Logic Controls II (3) Fall and Online</td>
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<td></td>
<td>ET 383 Microprocessor/Microcontroller Programming (3) Spring and Online</td>
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<td>ET 491 Senior Project (3) Fall/Spring/Summer</td>
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<tr>
<td>Dr. Syed Raza (FT)</td>
<td>CET 215 Network Maintenance and Support (3) Fall/Spring Campus and Online</td>
<td>Ph.D. Information Security Nova Southeastern University</td>
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<td></td>
<td></td>
<td>Jack Welch MBA Strayer University</td>
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<tr>
<td></td>
<td></td>
<td>Master of Science; Computer Science Nova Southeastern University</td>
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</tr>
<tr>
<td>Mr. Robert Miller (FT)</td>
<td>ET 221 Ac/Dc Theory I Fall</td>
<td>Doctoral Candidate Mechanical Engineering - University of Alabama Graduation: Spring 2024</td>
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</tr>
<tr>
<td></td>
<td>ET 491 Senior Project (3) Fall/Spring/Summer</td>
<td>Master of Science, Mechanical Engineering University of Alabama</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bachelor of Science Mechanical Engineering University of Alabama- Associates in Applied Science, Shelton State Community College- Computerized Numerical Control</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Associates in Applied Science, Shelton State Community College- Machine Tool Technology</td>
<td></td>
</tr>
<tr>
<td>Current Faculty</td>
<td>COURSES TAUGHT</td>
<td>ACADEMIC DEGREES and COURSEWORK</td>
<td>OTHER QUALIFICATIONS and COMMENTS</td>
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<tr>
<td>Mr. Kenneth Miller (PT)</td>
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<td></td>
<td>CET 300 Programming I (3) Fall</td>
<td>Bachelor’s Corporate Finance University of Alabama</td>
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<tr>
<td></td>
<td>CET 305 Computerized Data Analytics (3) Fall</td>
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<tr>
<td>Mrs. Sheree Datcher (PT)</td>
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<tr>
<td></td>
<td>CET 205 Microcomputer Applications (3) Fall/Spring</td>
<td>BS Office Administration / Minor Computer Science Alabama State University</td>
<td>Shelton State CC – Division Chair &amp; Instructor – Culinary Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Master’s in Education University of West Alabama</td>
<td>East Ms. CC – Adjunct Instructor Computer Science Dept.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University of West Alabama – Alabama Administrative (AA) Certification</td>
<td></td>
</tr>
<tr>
<td>Mrs. Kendra Winnick (PT)</td>
<td>CET 300 Programming I (3) Fall/Spring Online</td>
<td>Master’s in Computer Science Mississippi State University</td>
<td>Security+ 2013 CompTIA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bachelors in Computer Science Mississippi State University;</td>
<td>Information Assurance Certification, 2013, Department of Defense</td>
</tr>
<tr>
<td>Mr. Vaughan Lynch (PT)</td>
<td>CET 285 Network Maintenance and Support (3) Fall/Spring Online</td>
<td>MBA University of North Alabama</td>
<td>Director of Network and Systems Administration – Shelton State CC – Over 20 years of IT experience</td>
</tr>
<tr>
<td></td>
<td>AAS Computer Science Shelton State CC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Faculty (To Be Hired)</th>
<th>COURSES TO BE TAUGHT</th>
<th>ACADEMIC DEGREES and COURSEWORK</th>
<th>OTHER QUALIFICATIONS and COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposed (FT)</td>
<td>Electrical/Computer Engineering Technology Courses</td>
<td>Minimum of Master’s Degree in Electrical and/or Electrical and Computer Engineering Technology or related field</td>
<td>Industrial Experience Needed</td>
</tr>
</tbody>
</table>
## Current Faculty

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT FACULTY NAME (FT, PT)</td>
<td>COURSES TAUGHT including Term, Course Number, Course Title, &amp; Credit Hours (D, UN, UT, G, DU)</td>
<td>ACADEMIC DEGREES and COURSEWORK Relevant to Courses Taught, including Institution and Major; List Specific Graduate Coursework, if needed</td>
<td>OTHER QUALIFICATIONS and COMMENTS Related to Courses Taught and Modality(ies) (IP, OL, HY, OCIS)</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Employment Status of Program Personnel</th>
<th>Personnel Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count from Proposed Program Department</td>
</tr>
<tr>
<td>Current</td>
<td></td>
</tr>
<tr>
<td>Full-Time Faculty</td>
<td>4</td>
</tr>
<tr>
<td>Part-Time Faculty</td>
<td>4</td>
</tr>
<tr>
<td>Administration</td>
<td>1</td>
</tr>
<tr>
<td>Support Staff</td>
<td>1</td>
</tr>
<tr>
<td><strong>New To Be Hired</strong></td>
<td></td>
</tr>
<tr>
<td>Full-Time Faculty</td>
<td>1</td>
</tr>
<tr>
<td>Part-Time Faculty</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td></td>
</tr>
<tr>
<td>Support Staff</td>
<td></td>
</tr>
<tr>
<td><strong>Personnel Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

**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.

Additional Electrical and Robotics Equipment

Current equipment includes electrical trainers and software, PLC trainers with software, Process Controls trainers with software, electrical motor trainers with software and mechatronic trainers with software.

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.

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.

EET library requirement is based around scholarly articles that provide reference outside of the classroom and required texts. Our current offerings from UWA provide substantial resources to achieve understanding and provide the ability for students to write academic papers and complete the goals of the degree. Listed below are a few of the offerings UWA has with respect to engineering and technology.

<table>
<thead>
<tr>
<th>Library Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic OneFile</td>
<td>Academic OneFile is the premier source for peer-reviewed, full-text articles from the world’s leading journals and reference sources, with extensive coverage in Engineering and other subjects. Academic OneFile is both authoritative and comprehensive. With millions of articles available in both PDF and HTML full-text with no restrictions, researchers are able to find accurate information quickly.</td>
</tr>
<tr>
<td>EBSCO Open Access Journals</td>
<td>EBSCO is a leading provider of research databases, e-journal and e-package subscription management, book collection development and acquisition management, and a major provider of library technology, e-books and clinical decision solutions for universities, colleges, hospitals, corporations, government, K12 schools and public libraries worldwide.</td>
</tr>
<tr>
<td>WorldCat Dissertations</td>
<td>This database provides fast and convenient access to over 8 million dissertations and theses available in OCLC member libraries. Many of the dissertations are available electronically, at no charge, directly from the publishing institution. Hardcopies are loaned free to member institutions. The Julia Tutwiler Library at UWA a member of OCLC.</td>
</tr>
</tbody>
</table>
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.

ABET Cost = $2,400.00

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.

Although the new program will not require external funding, the faculty continue to explore Grants and other funding resources.

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?

The University calculated cost per credit hour in providing the tuition revenue provided for the program. The program did not take into account non-resident tuition rates in the calculation, but provided data based on resident cost per credit hour.

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 (17-2071): Electrical Engineers
SOC 2 (17-3023): Electrical & Electronics Engineering Technicians
SOC 3 (51-2028): Electrical, Electronic, & Electromechanical Assemblers

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).

According to above In-Demand Occupations website, the 2024 job projections are: Electrical Engineers (355), Electrical & Electronics Engineering Technicians (215), Electrical, Electronic, & Electromechanical Assembler (460)

B. According to the Alabama Department of Labor website, the 2024 job projections are: Electrical Engineers (5,360), Electrical and Electronic Engineering Technicians (2,270).

C. Employment Preparation

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

This program is heavily geared towards hands-on experience. This prepares students for smooth transition into the workforce after they graduate. The program offers laboratory work, projects, and internships that provide students with real-world skills applicable to the electrical engineering industry jobs pertaining to the above identified SOC codes.

Industrial Advisory board of UWA has unanimously supported this program and are confident that students from this program would get opportunities for internships, co-op programs and collaborative projects, facilitating a smooth transition from academia to the workforce.

D. 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.

Professional Licensure or industry certification is not required for graduate of the proposed program. However, students from this program would be eligible to procure professional licensure and certifications in Alabama as well as across the nation. This enhances the employability of graduates and facilitates their entry into electrical engineering sector jobs

E. 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.

No further training is needed. The proposed degree supplies the necessary skill sets for students to secure entry level employment in the industry Electrical Engineering sector.
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).

<table>
<thead>
<tr>
<th>Curriculum Overview of Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit hours required in general education</td>
</tr>
<tr>
<td>Credit hours required in program courses</td>
</tr>
<tr>
<td>Credit hours in program electives/concentrations/tracks</td>
</tr>
<tr>
<td>Credit hours in free electives</td>
</tr>
<tr>
<td>Credit hours in required research/thesis</td>
</tr>
<tr>
<td><strong>Total Credit Hours Required for Completion</strong></td>
</tr>
</tbody>
</table>

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:

90 hours from a 4yr. institution and 60 hours from a 2yr. institution

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

Eight (8)

D. Intended program duration in semesters for part-time students: Will vary depending on how many courses a student completes each semester.

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.
Internships or Co-ops are not required, but highly recommended.

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.

<table>
<thead>
<tr>
<th>Program Name:</th>
<th>Electrical Engineering Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Level:</td>
<td>Bachelor's Degree</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Curriculum Components of Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td><strong>General Education Courses (Undergraduate Only)</strong></td>
</tr>
<tr>
<td>EH 101</td>
</tr>
<tr>
<td>EH 102</td>
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<tr>
<td>EH 2XX</td>
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<td><strong>Program Courses</strong></td>
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</tr>
<tr>
<td>CET 305</td>
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<td>ET 385</td>
</tr>
<tr>
<td>ET 400</td>
</tr>
<tr>
<td>ET 405</td>
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</tbody>
</table>
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.

---

Steps for Submitting the New Academic Degree Proposal


2. Attach the letters of support from external entities listed in Section I.D. at the end of the New Academic Degree Proposal document.


5. Login to the Academic Program Review (APR) Portal at 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.


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:** University of West Alabama  
**PROGRAM:** Electrical Engineering Technology  
**Select Level:** Bachelor's

#### ESTIMATED "NEW" EXPENSES TO IMPLEMENT PROPOSED PROGRAM

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7</th>
<th>TOTAL</th>
</tr>
</thead>
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<td>75000</td>
<td>75000</td>
<td>75000</td>
<td>75000</td>
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<td></td>
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<td>178000</td>
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#### "NEW" REVENUES AVAILABLE FOR PROGRAM SUPPORT

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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<tr>
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<td>185250</td>
<td>204750</td>
<td>224250</td>
<td>243750</td>
</tr>
</tbody>
</table>

#### ENROLLMENT PROJECTIONS

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7</th>
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</thead>
<tbody>
<tr>
<td>FULL-TIME HEADCOUNT</td>
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<td>25</td>
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<tr>
<td>PART-TIME HEADCOUNT</td>
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<td>0</td>
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</tr>
<tr>
<td>TOTAL HEADCOUNT</td>
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<td>15</td>
<td>19</td>
<td>21</td>
<td>23</td>
<td>25</td>
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<tr>
<td>NEW ENROLLMENT HEADCOUNT</td>
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<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
</tbody>
</table>

#### DEGREE COMPLETION PROJECTIONS

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7</th>
<th>AVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEGREE COMPLETION PROJECTIONS</td>
<td>Year 1 - No data reporting required</td>
<td>3</td>
<td>5</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associate-level degree.

As a member of UWA’s Engineering and Technology (E&T) Advisor Board, I believe the University of West Alabama’s Division of Engineering and Technology programs are vital to the technical educational development of the community and industry. UWA’s Division of Engineering and Technology strives to develop qualified, trained, and educated college graduates. These graduates are prepared to enter the workforce supporting our industrial needs, driving innovation, and thereby increasing productivity.

Sincerely,

Diane Brooker  
Community Relations Manager  
Alabama Power  
dmbrooke@southernco.com  
334.217.0728
Date: 11-04-2023

To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

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Sincerely,

Michael Clark
Service Personnel

5101 21st Street
Tuscaloosa, Alabama
Phone: 205-391-6543
Cell: 205-399-6336
Email: michael.clark1@michelin.com
December 4, 2023

Alabama Commission of Higher Education (ACHE)

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I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Sincerely,

[Signature]
Jose Vicente Bernal Guillermo
HR Business Partner
Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Barry J. Rice
Mill Reliability Leader
7600 Hwy 10 West
Pine Hill, AL 36769
Office: 334-963-2306
December 4, 2023

ATTN: Alabama Commission of Higher Education (ACHE)

Subject: Letter of Support

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor's degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Webb Lavender  
Secretary/Treasurer  

Lavender, Inc.  
1056 Industrial Dr.  
Aliceville, AL 35442  
Cell: (205) 361-6881  
wlavender@lavenderinc.com
Date: 12/04/2023  
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing this letter in support of the proposed new majors at the University of West Alabama (UWA); a bachelor’s degree in electrical engineering technology (EET) and mechanical engineering technology (MET). The instruction and course work provided will create additional career pathways and opportunities for the students at UWA.

It is an honor to serve on UWA’s Engineering and Technology Advisory Board and I support the implementation of these degrees, which are in alignment with the skills needed within many industries today. The UWA Division of Engineering and instructional staff continue to focus on preparing students for success. In providing both the EET and MET degree choices, UWA will make a positive impact to the lives of their students and enhance their ability to establish meaningful careers.

Sincerely,

Steve Colburn  
Technical Recruiting  
Human Relations  
Email: steve.colburn@Mercedes-Benz.com  
Phone: 205-246-8792
November 6, 2023

Alabama Commission of Higher Education (ACHE)
100 N Union St Ste 782
Montgomery, AL 36104

Re: UWA Mechanical and Electrical Technology Bachelor Programs

Members of the Alabama Commission of Higher Education:

As an Electrical Technology instructor, corporate electrical trainer, and member of UWA’s Engineering and Technology (E&T) Advisor Board, I understand the need for a skilled workforce. I’m acutely aware of the challenges administrators and instructors face in providing technical skill training opportunities for students.

Therefore, I want to express my full support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). These two programs will provide a higher cognitive level of engineering principles than associate degrees provide and offer more effective platforms to launch careers in each discipline. The possibilities these two programs offer will benefit not only individuals, but the workforce sectors they enter.

Please give The University of West Alabama’s Mechanical and Electrical Technology Bachelor program proposals your full consideration. If you have any questions, feel free to contact me at lane.tyner@nucor.com or (205) 562-1406.

Thank you,

[Signature]

Lane Tyner
UWA Engineering and Technology (E&T) Advisor Board member
Nucor Technical Academy Supervisor
Date: 12-04-2023
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Sincerely,

Mike Closson
VP Sales & Marketing
P: 205.652.9583
mclosson@prystup.com
Prystup Packaging Products Inc.
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Sincerely,

Mark Thorne,
Sawline Technician
334-341-1518
mark.thorne@tworiverslumber.com
Two Rivers Lumber, LLC
Date: 12-04-2023
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Sincerely,

Brian Criswell,
Corporate CAD Manager
Phone: 251-342-1070
Email: brian.criswell@volkert.com
Volkert Inc.
Date: 11-04-2023

To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

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Sincerely,

Sandy Kornegay
Human Resources Director
The Westervelt Company
(205) 562-5487
skornegay@westervelt.com
Date: 11-04-2023
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associate’s level degree.

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Sincerely,

Charlie Willie
HR Leader
334-289-6200
Charlie.willie@westrock.com
WestRock - Demopolis
Date: 11-04-2023
To: Alabama Commission of Higher Education (ACHE)

Dear Members of the Alabama Commission of Higher Education,

I am writing to express my support for two proposed new majors at the University of West Alabama (UWA): a bachelor’s degree in Electrical Engineering Technology (EET) and a bachelor’s degree in Mechanical Engineering Technology (MET). The education provided by a bachelor’s degree allows for a working knowledge of engineering, in addition to a broader understanding than that supplied by an associates level degree.

As a member of UWA’s Engineering and Technology (E&T) Advisor Board, I believe the University of West Alabama’s Division of Engineering and Technology programs are vital to the technical educational development of the community and industry. UWA’s Division of Engineering and Technology strives to develop qualified, trained, and educated college graduates. These graduates are prepared to enter the workforce supporting our Industrial needs, driving innovation, and thereby increasing productivity.

Sincerely,
Cody H Baker,
Title: Project Engineer
Phone: 334-341-2001
Email: cody.h.baker@westrock.com
Company: Westrock Eutaw Folding
December 11, 2023

Alabama Commission of Higher Education

Dear Members of ACHE Board,

As a member of the University of West Alabama’s Engineering and Technology Board, I am writing to urge you all to take into consideration bringing to fruition two new majors at the University of West Alabama (UWA). The two proposed majors, a bachelor’s degree in Electrical Engineering Technology and a bachelor’s degree in Mechanical Engineering Technology are imperative to the education of the future of the industries that are the backbone of our state.

The benefit for these students to have the opportunity to dive deeper into the course curriculum and gain a more detailed expertise in these areas will prove to be limitless. The greater knowledge that would be gained past a two year associates’ degree would set students up for immense success to keep our economy rolling.

In closing, I implore you all to think on the benefit that the opportunity of these majors would bring to the State of Alabama. Preparing today’s students to support the industrial needs of our state will be critical to the infrastructure of our great state.

Regards,

David Compton
Service Manager II
334-216-4405
dcompto@ur.com
United Rentals, INC.