



Alabama Commission on Higher Education

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New Program Proposal

The following must be submitted to complete a new program request:

Submission Checklist:

- New Program Proposal
- Business Plan (<https://www.ache.edu/index.php/forms/>)
- Undergraduate or Graduate Curriculum Plan (<https://www.ache.edu/index.php/forms/>)

Primary Contact Information

Institution: Auburn University at Montgomery

Contact: Lei Wu, PhD

Title: Professor, Chair

Email: lwu@aum.edu

Telephone: 334-213-8666

Program Information

Date of Proposal Submission: 3/13/2026

Award Level: Bachelor's Degree

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

Field of Study/Program Title: Information Technology and Cybersecurity

CIP Code (6-digit): **11.1003**

Administration of the Program

Name of Dean: Douglas Leaman, PhD

Name of College/School: College of Sciences

Name of Chairperson: Lei Wu, PhD

Name of Department/Division: Computer Science & Computer Information Systems

Implementation Information

Proposed Program Implementation Date: 1/1/2027

Anticipated Date of Approval from Institutional Governing Board: 4/17/2026

Anticipated Date of ACHE Meeting to Vote on Proposal: 6/12/2026

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

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



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I. Program Description

A. Concise Program Summary (one paragraph) to be included in ACHE Agenda:

The proposed Bachelor of Science in Information Technology and Cybersecurity at Auburn University at Montgomery is designed to prepare students for careers in IT infrastructure, cybersecurity, network administration, and information assurance. The program combines foundational computing knowledge with specialized instruction in network security, systems administration, cloud technologies, digital forensics, and risk management. Through hands-on labs, applied projects, and experiential learning, students will develop practical skills in securing systems, protecting data, and responding to cyber threats. The curriculum emphasizes technical competence, ethical responsibility, and problem-solving aligned with regional and national workforce demands. Graduates will be prepared for immediate employment in industry and government or for advanced study in information technology and cybersecurity fields.

B. Specific Rationale (Strengths) for the Program

List three (3) to five (5) strengths of the proposed program as specific rationale for recommending approval of this proposal.

1. **Strong Workforce Demand in Cybersecurity and IT:** The program addresses a critical and well-documented shortage of professionals in cybersecurity, network administration, and information technology, both regionally and nationally, ensuring strong employment prospects for graduates.
2. **Practice-Oriented, Skills-Focused Curriculum:** The curriculum emphasizes hands-on laboratories, real-world simulations, and applied projects that develop practical competencies in securing systems, managing networks, and mitigating cyber threats.
3. **Alignment with Regional and National Security Priorities:** The program supports workforce needs in government, defense, healthcare, finance, and industry sectors that increasingly require professionals trained in cybersecurity and information assurance.
4. **Industry-Relevant Technical Preparation:** Students gain experience with modern tools, platforms, and standards used in professional environments, preparing them for industry certifications and immediate workforce readiness.
5. **Strategic Institutional Growth and Student Attraction:** Offering an undergraduate major in Information Technology and Cybersecurity enhances the university's academic portfolio, attracts high-demand STEM students, and strengthens enrollment growth and retention through career-focused education.



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C. External Support (Recommended)

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.

None

D. Student Learning Outcomes

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

1. Students will be able to apply core information technology concepts, including networking, operating systems, databases, and system administration, to solve technical problems.
2. Students will design, implement, and secure computing systems and networks using industry-standard tools, protocols, and best practices.
3. Students will identify, analyze, and mitigate cybersecurity threats and vulnerabilities through risk assessment, penetration testing, and defensive security techniques.
4. Students will demonstrate proficiency in scripting and programming to automate tasks, analyze system behavior, and support cybersecurity operations.
5. Students will apply principles of digital forensics and incident response to investigate security breaches and document findings in a professional manner.
6. Students will evaluate legal, ethical, and policy issues related to cybersecurity, privacy, and information assurance.
7. Students will communicate technical information effectively through written reports, documentation, and oral presentations for both technical and non-technical audiences.



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E. 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.

Using the Alabama Commission on Higher Education Program Inventory (ACHE: https://data.ache.edu/ACHE_ProgInvSearch), we reviewed bachelor's-level offerings under the same CIP code (or closely related CIP codes) to determine whether a comparable program already exists within Alabama's public institutions. Where a similar in-state program is identified, the table provides a brief justification describing the proposed B.S. in IT and Cybersecurity's distinct focus and need, particularly its cybersecurity-integrated curriculum and required hands-on lab components.

CIP Code	Degree Title	Institution with Similar Program	Justification for Duplication
110103	Bachelor of Science	Athens State University – Information Technology	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by a cybersecurity-integrated curriculum with required hands-on cybersecurity labs aligned with distinct workforce needs.
110103	Bachelor of Science	University of North Alabama – Information Technology	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by a cybersecurity-integrated curriculum with required hands-on cybersecurity labs aligned with distinct workforce needs.
110103	Bachelor of Science	University of South Alabama – Information Technology	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by a cybersecurity-integrated curriculum with required hands-on cybersecurity labs aligned with distinct workforce needs.
111003	Bachelor of Science	Athens State University – Cybersecurity	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by an IT-centered curriculum with cybersecurity integrated throughout and required hands-on cybersecurity labs aligned with distinct workforce needs.
111003	Bachelor of Arts / Bachelor of Science	Troy University – Cyber Security	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by an IT-centered curriculum with cybersecurity integrated throughout and required hands-on cybersecurity labs aligned with distinct workforce needs.
111003	Bachelor of Science	The University of Alabama – Cyber Security	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by an IT-centered curriculum with cybersecurity integrated throughout and required hands-on cybersecurity labs aligned with distinct workforce needs.
111003	Bachelor of Science	The University of Alabama in Huntsville – Cyber Operations Technology / Cybersecurity	Same CIP bachelor-level program exists; proposed B.S. in IT and Cybersecurity is differentiated by an IT-centered curriculum with cybersecurity integrated throughout and required hands-on cybersecurity labs aligned with distinct workforce needs.



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140999	Bachelor of Science	The University of Alabama in Huntsville – Cybersecurity Engineering	Similar bachelor-level program exists under a closely related CIP code; proposed B.S. in IT and Cybersecurity is differentiated by an IT-centered, non-engineering curriculum with cybersecurity integrated throughout and required hands-on cybersecurity labs aligned with distinct workforce needs.
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F. Relationship to Existing Programs within the Institution

Nearly all new programs have some relationship to existing offerings through shared courses, faculty, facilities, etc. Is the proposed program associated with any existing offerings within the institution, including options within current degree programs? **Yes** **No**

If **yes**, please describe these relationships including whether or not the program will replace or compete with existing offerings: (**Note:** 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.)

The proposed B.S. in IT and Cybersecurity is associated with AUM's existing undergraduate offerings in Information Systems and Computer Science through shared foundational coursework, faculty expertise, and instructional resources. The program will leverage existing courses in programming fundamentals, networking, operating systems, database concepts, and systems administration as part of its IT foundation, while introducing dedicated cybersecurity coursework and required hands-on cybersecurity laboratory experiences to create a distinct curricular pathway focused on secure IT operations and applied security practice.

The proposed program is not intended to replace any existing degree program or concentration; instead, it complements current offerings by providing a standalone, IT-centered curriculum with cybersecurity integrated throughout, aligned with workforce demand for graduates prepared for both IT and cybersecurity roles. Course scheduling, lab access, and advising will be coordinated to minimize overlap conflicts and to allow students to progress efficiently through shared foundation courses and the program-specific cybersecurity sequence.

G. Collaboration

Have any collaborations **within your institution** (i.e., research centers, across academic divisions, etc.) been explored? **Yes** **No**

Have collaborations with **other institutions or external entities** (i.e., local business, industries, etc.) been explored? **Yes** **No**

H. Programmatic Accreditation

Select the appropriate program accreditor from the drop-down menu below:



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Choose an item.

Provide a detailed timeline for gaining accreditation (i.e., when will full candidacy be reached?):

I. Professional Licensure

Will the program be considered a Professional Licensure Program based on the following definition: **Yes** **No**

Professional Licensure Program: As defined in federal regulations, an instructional program that is designed to meet educational requirements for a specific professional license or certification that is required for employment in an occupation or is advertised as meeting such requirements.

If **yes**, please explain:

Select the appropriate licensure body from the table below:

Choose an item.

Select the appropriate license from the table below:

Choose an item.

J. Professional Certification

Will students earn industry certifications while completing the degree or be prepared for industry certifications upon graduation? **Yes** **No**

If **yes**, please explain:

K. Admissions

Provide any additional admissions requirements beyond the institution's standard admissions process/policies for this degree level. Include prerequisites, prior degrees earned, etc.

None.



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L. Mode of Delivery

Provide the planned delivery format(s) of the program as defined in policy (i.e., in-person, online, hybrid). Please also note whether any program requirements can be completed through competency-based assessment.

Core programming, computing foundations, networking theory, and cybersecurity concepts may be offered through online or hybrid or face-to-face formats. Courses focused on practical technical skills, such as cybersecurity labs, network configuration exercises, digital forensics, and cloud infrastructure deployment, will include structured lab components that can be conducted in person or through secure remote virtual labs.

The program uses project- and performance-based assessments, including cybersecurity simulations, incident response exercises, penetration testing labs, and capstone projects. While the curriculum leverages virtual infrastructure and cloud-based learning environments for remote participation in many technical activities, some advanced cybersecurity courses may require supervised laboratory access to comply with institutional security policies.

Can students complete the entire degree program through distance education (100% online) based on the following definition? **Yes** **No**

Distance Education: An academic program for which required instructional activities can be completed entirely through distance education modalities. A distance education program may have in-person requirements that are non-instructional (e.g., orientation, practicum).

M. Instructional Site(s)

Provide the planned location(s) where the program will be delivered (i.e., main campus, satellite campus, off-campus site.) If the program will be offered at an off-campus site, provide the existing site name or submit an **Off-Campus Site Request** if new.

The program will be delivered at Auburn University at Montgomery.

Instruction will utilize existing computing laboratories, cybersecurity instructional infrastructure, and university learning management systems. Online course sections will be delivered through the institution's approved digital learning platforms.

Will more than 50% of this program be offered at an off-campus site(s) **Yes** **No**

If **yes**, which sites?

All in-person instruction will occur at the main campus. No additional off-campus instructional sites are required.

N. Industry Need

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



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of SOCs can be found at <https://www.onetcodeconnector.org/find/family/title#17>.

SOC 1 (**required**): 15-1212.00 – Information Security Analysts

SOC 2 (optional): 15-1232.00 – Computer User Support Specialists

SOC 3 (optional): 15-1252.00 – Software Developers

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 proposed Bachelor of Science in Information Technology and Cybersecurity addresses a well-documented shortage of workforce in cybersecurity, information technology infrastructure, cloud computing, and secure software systems across Alabama and the broader Southeast region. Cybersecurity and IT professionals are consistently listed among the fastest-growing occupations nationally, with the U.S. Bureau of Labor Statistics projecting well above-average growth for information security analysts over the next decade. In Alabama, workforce analyses from state economic development organizations and industry groups identify cybersecurity, software infrastructure, and secure network administration as key technical roles supporting the state's defense, aerospace, government, finance, healthcare, manufacturing, and logistics sectors.

The Montgomery region hosts major employers involved in cybersecurity, including Maxwell Air Force Base, Gunter Annex, federal agencies, defense contractors, and government IT operations, all requiring trained personnel in network security, secure cloud computing, digital forensics, and cyber defense operations. The curriculum directly supports these workforce needs by providing applied preparation in:

1. Cryptography and cybersecurity foundations
2. Network systems and operating systems
3. Ethical hacking and penetration testing
4. Malware analysis and data security
5. Digital forensics
6. Cloud computing and cloud security
7. Distributed trust and post-quantum security

By combining solid computer science fundamentals with applied cybersecurity training and laboratory-based technical practice, the program prepares graduates for high-demand roles in



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cybersecurity operations, IT infrastructure management, secure software deployment, and cloud security engineering, thus supporting Alabama's growing technology workforce and enhancing digital infrastructure resilience.

O. Additional Education/Training

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

Graduates of the Bachelor of Science in Information Technology and Cybersecurity will be prepared for entry-level employment in cybersecurity and information technology occupations upon graduation. While additional formal education is not required for entry-level roles, employers may require:

1. background checks or security clearance for government positions
2. employer-specific onboarding training
3. optional professional certifications

The curriculum prepares students to pursue industry certifications such as:

1. **CompTIA Security+**
2. **CompTIA Network+**
3. **Certified Ethical Hacker (CEH)**
4. **AWS Cloud certifications**
5. **Certified Information Systems Security Professional (CISSP)**

P. Student Demand

Please explain how you projected the student enrollment numbers in the **Business Plan, Lines 24-27** and provide evidence to substantiate student demand (i.e., surveys, enrollments in related courses, etc.).

Enrollment projections for the proposed Information Technology and Cybersecurity program are based on several indicators of current and expected student interest:

1. Consistent enrollment growth in existing computer science, networking, cybersecurity, and Linux courses offered by the institution.
2. High student interest in cybersecurity-related courses, including electives such as digital forensics, network security, cloud computing & security, and ethical hacking, as evidenced by the program's cybersecurity elective offerings.



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3. Regional demand for cybersecurity professionals in sectors like government, defense, financial services, healthcare, and technology infrastructure across Alabama.
4. Potential recruitment from transfer students, dual-enrollment pathways, military-affiliated students, and adult learners looking for workforce-oriented computing degrees with strong job prospects.

The program's practical technical focus, cybersecurity specialization, and alignment with workforce needs are expected to ensure steady enrollment growth and long-term sustainability.



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II. Program Resources and Expenses

A. All Proposed Program Personnel

Provide all personnel counts for the proposed program.

Employment Status of Program Personnel		Personnel Information		
		Count from Proposed Program Department	Count from Other Departments	Subtotal of Personnel
Current	Full-Time Faculty	6		6
	Part-Time Faculty	0		0
	Administration	1		1
	Support Staff	1		1
**New To Be Hired	Full-Time Faculty	0		0
	Part-Time Faculty	0		0
	Administration	0		0
	Support Staff	0		0
Personnel Total				

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:

Auburn University at Montgomery has allocated 6 dedicated, full-time faculty members to ensure the curricular quality and integrity of the B.S. in IT and Cybersecurity. These faculty will utilize a strategic rotation model, alternating the courses from the major across the three academic semesters (Fall, Spring, and Summer) to provide consistent year-round coverage of program requirements. By coordinating their instructional loads, these faculties can maintain a high-quality hands-on mentorship while leveraging existing faculty from other departments for foundational coursework. This rotating faculty structure ensures that students have a clear, efficient pathway to graduation without compromising the rigor of technical instruction or program oversight.

Note: Include *any new funds* designated for compensation costs (faculty, administration, and/or support staff to be hired) in the **Business Plan, Line 7 - Personnel Salaries and Benefits**. Current personnel salary/benefits *should not be included* in the Business Plan.



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B. Proposed Faculty Roster*

Complete the following **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)
Pengzhou He	-CSCI 2350 (Secure Paral Com Logic Design), 3, UT -CSCI 3330 (Configurable AI ML Privacy Assurance), 3, UT -CSCI 3340 (Private AI & Security), 3, UT -CSCI 3360 (Embed Reconfigurable Computation), 3, UT	Ph.D. in Computer Engineering, Villanova University	
Hua Yan	-CSCI 2310 (Cryptography), 3, UT -CSCI 3410 (Post Quantum Security Trust), 3, UT -CSCI 2100 (Linux/Unix), 3, UT -CSCI 2163 (Python), 4, UT -CSCI 2160 (Fundamentals of AI Computing), 3, UT -CSCI 3703 (Database), 3, UT	M. S. in Computer Science from Concordia University, Currently pursuing Ph.D. in Computer Science and Software Engineering at Auburn University	
Zhenlu Qin (FT)	-CSCI 2000 (Functional & Structural Programming), 4, UT -CSCI 3000 (Object-Oriented Programming), 4, UT -CSCI 2100 (Linux/Unix), 3, UT -CSCI 4350 (Networking), 3, UT	Ph.D. in Electrical and Computer Engineering, New Jersey Institute of Technology	
Sheik Anik	CSCI 4140 Adv. Machine Learning Security Trait, 3, UT CSCI 4240 Internet of Things AI Cloud with Security, 3, UT CSCI 4300 Intro. Operating Systems, 3, UT	Ph.D. in Computer Science, Virginia Polytechnic Institute and State University,	
Weiqi Liu	CSCI 4260 Computer Security and Reliability, 3, UT	Ph.D. in Electrical and Computer Engineering, New Jersey Institute of Technology	
Yue Cui	-CSCI 3400 (Data Structure), 3, UT -CSCI 3600 (Algorithm Analysis & Design), 3, UT -CSCI 2020 (Micro Embedded System Dev), 3, UT -CSCI 2100 (Linux/Unix), 3, UT -CSCI 2163 (Python), 4, UT	Ph.D. in Computer Science and Software Engineering, Auburn University	
Additional Faculty (To Be Hired)			
1	2	3	4



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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)
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



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C. Equipment

Will any special equipment be needed specifically for this program? Yes No

If **yes**, list the special equipment and include all special equipment costs in the **Business Plan, Line 8**:

D. Facilities

Will new facilities or renovations to existing infrastructure be required specifically for the program? Yes No

If **yes**, describe the new facilities or renovations and include all *new* facilities and/or *renovation* costs in the **Business Plan, Line 9**:

E. Assistantships/Fellowships

Will the institution offer any assistantships specifically for this program? Yes No

If **yes**, provide the number of assistantships to be offered and include all *new* costs for assistantships in the **Business Plan, Line 10**.

Explain the function of the Assistantships (i.e., teaching, research, etc.)?:

F. Library

Will any **additional** library resources be purchased to support the program? Yes No

If **yes**, briefly describe new resources to be purchased and include the cost of new library resources in the **Business Plan, Line 11**:

G. Accreditation Expenses

If programmatic accreditation was indicated above, please include all accreditation costs in the **Business Plan, Line 12** and itemize and explain below:

H. Other Costs

Please include all other costs incurred with program implementation, such as marketing or recruitment, in the **Business Plan, Line 13** and explain below:



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III. Program Revenue and Funding

A. Tuition Revenue: Please describe how you calculated the tuition revenue that appears in the ***Business Plan, Line 17***. Specifically, did you calculate using cost per credit hour or per term? Did you factor in differences between resident and non-resident tuition rates?

Note: Tuition Revenue should be proportional to total enrollment.

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

If **yes**, please include all external funding in the ***Business Plan, Line 18*** and explain specific sources and funding below:

C. Reallocations: For each year will tuition revenue and/or external funding cover projected expenses? **Yes** **No**

If **not**, budget reallocation may be required. Please include all reallocations in the ***Business Plan, Line 19*** and describe below how your institution will cover any shortfalls in any given year.

ACADEMIC DEGREE PROGRAM BUSINESS PLAN									
1									
2	INSTITUTION:	Auburn University at Montgomery							
3	PROGRAM NAME:	Information Technology and Cybersecurity Major	CIP CODE:	11.1003					
4	SELECT LEVEL:	UNDERGRADUATE (BACHELOR'S)							
5	ESTIMATED *NEW* EXPENSES TO IMPLEMENT PROPOSED PROGRAM								
6		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
7	PERSONNEL SALARIES & BENEFITS								\$0
8	EQUIPMENT								\$0
9	FACILITIES								\$0
10	ASSISTANTSHIPS/FELLOWSHIPS								\$0
11	LIBRARY								\$0
12	ACCREDITATION								\$0
13	OTHER COSTS								\$0
14	TOTAL EXPENSES	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	*NEW* REVENUES AVAILABLE FOR PROGRAM SUPPORT								
16		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	TOTAL
17	TUITION + FEES	\$114,201	\$420,350	\$538,720	\$604,630	\$604,630	\$604,630	\$604,630	\$3,491,791
18	EXTERNAL FUNDING								\$0
19	REALLOCATIONS								\$0
20	TOTAL REVENUES	\$114,201	\$420,350	\$538,720	\$604,630	\$604,630	\$604,630	\$604,630	\$3,491,791
21	ENROLLMENT PROJECTIONS								
22									
23		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
24	FULL-TIME ENROLLMENT HEADCOUNT	No data reporting	27	37	45	45	45	45	40.67
25	PART-TIME ENROLLMENT HEADCOUNT								0.00
26	TOTAL ENROLLMENT HEADCOUNT		27	37	45	45	45	45	40.67
27	NEW ENROLLMENT HEADCOUNT		15	15	15	15	15	15	15.00
28	Validation of Enrollment			YES	YES	YES	YES	YES	
29	DEGREE COMPLETION PROJECTIONS								
30	<i>Note: Do not count Lead "0"s and Lead 0 years in computing the average annual degree completions.</i>								
31		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	AVERAGE
32	DEGREE COMPLETION PROJECTIONS	No data reporting	0	0	8	8	8	8	8.00

Undergraduate Curriculum Plan

Undergraduate Curriculum Checklist:

- | | |
|--------------------------|-------------------------------------|
| 1. Overview | <input checked="" type="checkbox"/> |
| 2. Components | <input checked="" type="checkbox"/> |
| 3. Options (as required) | <input checked="" type="checkbox"/> |

1. Undergraduate Overview

**Enter the credit hour value for all applicable components (N/A if not applicable).
The credit hours MUST match the credit hours in the Curriculum Components table.**

Curriculum Overview of Proposed Program	
Credit hours required in General Education	44
Credit hours required in Program Courses & Required Electives	55
Credit hours in Program Options (concentrations/specializations/tracks)	0
Credit hours in Free Electives	18
Credit hours in required Capstone/Internship/Practicum	3
Total Credit Hours Required for Completion:	120

Maximum number of credits that can be transferred in from another institution and applied to the program:	90
Intended program duration in semesters for full-time students:	8
Intended program duration in semesters for part-time students:	16

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
	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If **yes**, please explain (i.e., number of hours required, etc.):

	YES	NO
Does the program include any concentrations/ tracks/ options?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes , please explain (i.e., define):		

2. Undergraduate Components

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.

Insert Additional Rows as Needed				
Institution:	Auburn University at Montgomery			
Program Name:	Information Technology and Cybersecurity			
Program Level:	UNDERGRADUATE (BACHELOR'S)			
Curriculum Components of Proposed Program				
Course Number	Course Name	Credit Hours	New? (Y)	WBL? (Y)
General Education Courses		44 minimu m		
AUM GENERAL CORE				
UNIV 1000	University Success: Bridge	3		
AREA I				
ENGL 1010	English Composition I	3		
ENGL 1020	English Composition II	3		
AREA II				
ENGL 2530	Survey of English Literature I	3		
ENGL 2540	Survey of English Literature II			
ENGL 2570	Survey of American Literature I			
ENGL 2580	Survey of American Literature II			
ENGL 2600	Survey of World Literature I			
ENGL 2610	Survey of World Literature II			
ENGL 2670	Survey of African American Literature I			
ENGL 2680	Survey of African American Literature II			
AREA II	One mandatory Literature course. Students must complete a 6-hour sequence in either Literature or in History. If two Literature courses are taken in a sequence, then only one History course is required	3		
MUSI 2110	Music Appreciation	3		
THEA 2040	Theatre Appreciation			
VISU 1000	Introduction to the Visual Arts			
VISU 2030	Art History I			
VISU 2040	Art History II			
VISU 2600	Introduction to World Architecture1			

CHIN 1010 CHIN 1020 COMM 1010 COMM 1017 COMM 2100 COMM 2212 FREN 1010 FREN 1020 FREN 2010 FREN 2020 GERM 1010 GERM 1020 GERM 2010 GERM 2020 LATN 1010 LATN 1020 PHIL 2000 PHIL 2010 I PHIL 2100 RELI 2010 SPAN 1010 SPAN 1020 SPAN 2010 I SPAN 2020 I	Elementary Mandarin Chinese I Elementary Mandarin Chinese II Introduction to Human Communication Introduction to Human Communication, Honors Media and Culture (3 Hours) Public Speaking Elementary French I Elementary French II Intermediate French I Intermediate French II Elementary German I Elementary German II Intermediate German I Intermediate German II Elementary Latin I Elementary Latin II Reasoning and Critical Thinking Introduction to Philosophy Introduction to World Religions Elementary Spanish I Elementary Spanish II Intermediate Spanish I Intermediate Spanish II	3 or 4		
AREA III				
BIOL 1000/1001 BIOL 1010/1011 BIOL 1017/1018 BIOL 1020/1021 BIOL 1027/1028 BIOL 1050/1051 BIOL 2100/2101 BIOL 2010/2011 BIOL 2093 CHEM 1100/1101 CHEM 1200/1201 PHYS 2100/2101 PHYS 2200/2201 PSCI 1100/1101 PSCI 1300/1301 PSCI 1400/1401 PSCI 1500/1501	Introduction to Biology/Lab Cellular and Molecular Basis of Life/Lab Cellular and Molecular Basis of Life/Lab, Honors Organisms, Adaptations, and the Environment/Lab Organisms, Adaptations, and the Environment/Lab, Honors Introduction to Environmental Biology/Lab Anatomy and Physiology I/ Lab Fundamentals of Microbiology/Lab Essentials of Anatomy and Physiology/Lab General Chemistry I/Lab General Chemistry II/Lab General Physics I/Lab General Physics II/Lab Introduction to Physical Science/Lab Introduction to Earth Science Introduction to Astronomy/Lab Introduction to Chemistry/Lab	4		

BIOL 1000/1001 BIOL 1010/1011 BIOL 1017/1018 BIOL 1020/1021 BIOL 1027/1028 BIOL 1050/1051 BIOL 2100/2101 BIOL 2010/2011 BIOL 2093 CHEM 1100/1101 CHEM 1200/1201 PHYS 2100/2101 PHYS 2200/2201 PSCI 1100/1101 PSCI 1300/1301 PSCI 1400/1401 PSCI 1500/1501	Introduction to Biology/Lab Cellular and Molecular Basis of Life/Lab Cellular and Molecular Basis of Life/Lab, Honors Organisms, Adaptations, and the Environment/Lab Organisms, Adaptations, and the Environment/Lab, Honors Introduction to Environmental Biology/Lab Anatomy and Physiology I/ Lab Fundamentals of Microbiology/Lab Essentials of Anatomy and Physiology/Lab General Chemistry I/Lab General Chemistry II/Lab General Physics I/Lab General Physics II/Lab Introduction to Physical Science/Lab Introduction to Earth Science Introduction to Astronomy/Lab Introduction to Chemistry/Lab	4		
MATH 1020 OR MATH 1050	Contemporary Mathematics College Algebra	3		
AREA IV				
HIST 1010 HIST 1017 HIST 1020 HIST 1027 HIST 1060 HIST 1070 HIST 1080 HIST 1090 HONR 1957 HONR 2757 HONR 3757	World History I to 1648 World History I, Honors World History II Since 1648 World History II, Honors History of Western World I History of Western World II U.S. History to 1865 U.S. History Since 1865 Honors Colloquium UHP Seminar UHP Seminar	3		
HIST 1010 HIST 1017 HIST 1020 HIST 1027 HIST 1060 HIST 1070 HIST 1080 HIST 1090 HONR 1957 HONR 2757 HONR 3757	World History I to 1648 World History I, Honors World History II Since 1648 World History II, Honors History of Western World I History of Western World II U.S. History to 1865 U.S. History Since 1865 Honors Colloquium UHP Seminar UHP Seminar	3		

ANTH 2110	Cultural Anthropology	3		
ECON 1000	Essentials of Economics			
ECON 2010	Economics I (Micro)			
ECON 2017	Economics I (Micro), Honors			
ECON 2020	Economics II (Macro)			
ECON 2027	Economics II (Macro), Honors			
GEOG 2050	Geography of World Regions			
GEOG 2150	Human Geography			
JUST 1270	Introduction to the American Legal System			
POLS 1020	Introduction to American Politics			
POLS 1200	International Relations			
PSYC 1000	General Introductory Psychology			
PSYC 2780	Human Growth Development			
SOCI 2000	Introduction to Sociology			
SOCI 2007	Introduction to Sociology, Honors			
SOCI 2010	Social Problems			
ANTH 2110	Cultural Anthropology	3		
ECON 1000	Essentials of Economics			
ECON 2010	Economics I (Micro)			
ECON 2017	Economics I (Micro), Honors			
ECON 2020	Economics II (Macro)			
ECON 2027	Economics II (Macro), Honors			
GEOG 2050	Geography of World Regions			
GEOG 2150	Human Geography			
JUST 1270	Introduction to the American Legal System			
POLS 1020	Introduction to American Politics			
POLS 1200	International Relations			
PSYC 1000	General Introductory Psychology			
PSYC 2780	Human Growth Development			
SOCI 2000	Introduction to Sociology			
SOCI 2007	Introduction to Sociology, Honors			
SOCI 2010	Social Problems			
Program Courses and Required Electives		55		
CSCI 2000/2001	Functional and structural Programming Languages and Labs	4		
CSCI 2100	Linux/Unix for AI/IT/Cyber Robotics Foundations	3		
CSCI 2160	Fundamentals of AI Computing	3		
CSCI 2163	Python Programming Language for Ethical AI/IT/Cyber/Robotics and Labs	4		
CSCI 2310	Cryptography & Cybersecurity Foun.	3		
CSCI 3000/3001	Object-Oriented Programming Languages and Labs	4		
CSCI 3400	Data Structures	3		
CSCI 3703	Introduction to Database Systems and Labs	4		
CSCI	IT and Cybersecurity elective	3		
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CSCI	IT and Cybersecurity elective	3		
Program Options (enter total credit hours from all options below)		0		
Free Electives		18		

CSCI 2350	Secure Paral. Computing Logic Design	3		
CICS 3320	Ethical Hacking and Ethics in Cybersecurity Foun.	3		
CSCI 3330	Confidential AI ML Privac Assurance Foun.	3		
CSCI 3340	Private AI and Secure Machine Acceleration Foun.	3		
CSCI 3360	Embedded Reconfigurable Computing Foun.	3		
CSCI 3390	Distr. Ledger Consensus Crypto Security Foun.	3		
CSCI 3410	Post-Quantum Security Distributed Trust. Foun.	3		
CSCI 3420	Data Security and Malware Analysis Foun.	3		
CSCI 4080	Digital Forensics Foun.	3		
CSCI 4140	Adv. Machine Learning Security Trait Foun.	3		
CSCI 4180	Security Reverse Engineering Foun.	3		
CSCI 4240	Internet of Things AI Cloud with Security Foun.	3		
CSCI 4260	Computer Security and Reliability Fund.	3		
CSCI 4300	Intro. Operating Systems Foun.	3		
CSCI 4350	Network System Foun.	3		
CSCI 4400	Cloud Computing and Security Foun.	3		
Capstone/Internship/Practicum		3		
CSCI 4924	Internship Capstone Practicum	3		
Total Credit Hours Required for Completion:		120		