

**PROPOSAL APPLICATION**

**Form No. SAAT-02**

Section (s.) 1007.25(9), Florida Statutes (F.S.), and Rule 6A-14.094, Florida Administrative Code (F.A.C.), outline the requirements for Florida College System institution specialized associate in arts transfer degree program proposals. The completed Proposal Application shall be submitted by the college president to the chancellor of the Florida College System at [ChancellorFCS@fldoe.org](mailto:ChancellorFCS@fldoe.org).

**CHECKLIST**

The proposal requires completion of the following components:

- Institution Information
- Program summary
- Program description
- Rationale for the specialized associate in arts transfer degree program length
- Coursework beyond the 60 credits required for a general associate in arts degree program
- Workforce demand and unmet need of the articulated baccalaureate degree program
- Program of study to include all predetermined performance and graduation requirements
- Articulation agreement between the college and the state university (Attach to Appendix A)
- Documented alignment between college exit and state university admission requirements
- College response to state university comments to the notice of intent
- Program implementation timeline

**PROPOSING FLORIDA COLLEGE SYSTEM INSTITUTION INFORMATION**

Institution Name.	Lake-Sumter State College
Institution Contact:	Karen Hogans

**RECEIVING STATE UNIVERSITY SYSTEM INSTITUTION INFORMATION**

Institution Name:	University of Central Florida
Institution Contact:	Harrison Oonge

**PROGRAM SUMMARY**

1.1	Specialized associate in arts transfer degree program name.	Electrical Engineering
1.2	Specialized associate in arts transfer degree program length (credit hours).	60-89
1.3	How will the proposed specialized associate in arts transfer degree program be delivered (check all that apply)?	<input type="checkbox"/> Face-to-face (F2F) (Entire degree program delivered via F2F courses only)  <input type="checkbox"/> Completely online (Entire degree program delivered via online courses only)  <input checked="" type="checkbox"/> Combination of face-to-face/online (Entire degree program delivered via a combination of F2F and online courses)
1.4	Type and name of the baccalaureate degree program to which the specialized associate in arts transfer degree program articulates (check only one).	<input type="checkbox"/> Bachelor of Arts (BA) Please specify the program name below: Click or tap here to enter text.  <input checked="" type="checkbox"/> Bachelor of Science (BS) Please specify the program name below: Electrical Engineering B.S.E.E.  <input type="checkbox"/> Bachelor of Applied Science (BAS) Please specify the program name below: Click or tap here to enter text.
1.5	Degree Classification of Instructional Program (CIP) code (6-Digit) of the baccalaureate degree program to which the specialized associate in arts transfer degree program articulates. CIP code refers to the taxonomic scheme developed by the U.S. Department of Education's <a href="#">National Center for Education Statistics</a> .	Electrical Engineering CIP – 14.1001
1.6	Anticipated specialized associate in arts transfer degree program implementation date.	2026-2027 Academic Year

## PROGRAM DESCRIPTION

2.1 This section will serve as an **executive summary** of this proposal. This section must include: the rationale for the specialized transfer degree program length, demand and unmet need of the articulated baccalaureate degree program in the state university’s workforce area, and an overview of the program curriculum to include the proposed coursework beyond the sixty (60) credits required for a general associate in arts degree.

- Rationale for the specialized associate in arts transfer degree program length:**  
 Students pursuing a career as an electrical engineer often follow a front-loaded academic pathway due to several foundational requirements. These include prerequisite mathematics courses needed to qualify for college-level math, meeting the foreign language requirement for transfer to a baccalaureate program, and completing substantial prerequisite coursework aligned with their intended major. As a result, students aiming to transfer into the University of Central Florida’s Electrical Engineering B.S. program typically need to complete up to 89 credit hours—significantly more than the standard 60 credit hours required for a general Associate in Arts (A.A.) degree. This Specialized Associate in Arts transfer degree is intentionally designed to meet the different academic preparedness levels of students pursuing these fields. The program allows for a total credit range of 60 to 89 hours, recognizing that many students will exceed the 60-credit threshold to meet the prerequisites and be fully transfer-ready.

- Demand and unmet need of the university’s articulated baccalaureate degree program:**  
 The demand for articulated baccalaureate degree programs in engineering within the state university's workforce area is robust, as evidenced by a projected average growth rate of 10% in employment for these engineering-related professions. On an annual average, there are approximately 367 job openings in the Electrical engineering sector all of which require a baccalaureate degree as specified by the Florida Labor Market Estimating and the Bureau of Labor Statistics. The data also shows a strong workforce demand in the field and underscores the important role the University of Central Florida (UCF) continues to play in meeting regional and statewide talent needs. UCF’s robust degree production—145 graduates in the most recent year and a five-year average of 140—demonstrates the university’s ongoing commitment to preparing highly qualified professionals. Despite this strong output, employer demand remains even higher, with 367 total job openings. This results in an estimated unmet need of 222 graduates (based on the most recent year) and 227 graduates (based on a five-year average). Overall, the data illustrates the positive momentum of the engineering workforce landscape, reinforcing the value of strengthening academic pathways that help meet Florida’s rising demand for skilled professionals.

- Curriculum and coursework beyond 60 credits for a general associate in arts degree:**  
[Click or tap here to enter text.](#)

Area	Course Prefix/Number	Course Title	Credits	
Communications	ENC 1101	College Composition I	3	9
	ENC 1102	Composition: Literature	3	
	SPC 2608	Public Speaking	3	

Humanities	General Education Humanities Course	General Education Humanities Course	3	6
	LIT 2000; PHI 2010	Introduction to Literature; Introduction to Philosophy	3	
Mathematics	MAC 1105	College Algebra	3	6
	MAC 1114	Trigonometry	3	
Natural Sciences	CHM 1025C	Introductory Chemistry w/ Lab	4	8
	CHM 2045C	General Chemistry I w/ Lab	4	
Social Sciences	AMH 2010; AMH 2020; POS 2041	U.S. History to 1877; U.S. History Since 1877; POS 2041 American National Government	3	6
	Social Sciences	Any GenEd Social and Behavioral Sciences (SBS)	3	
Electives <sup>a</sup>	Foreign Language	Foreign Language	8	25
	MAT 1033	Intermediate Algebra	3	
	MAC 1140	Precalculus Algebra	4 <sup>b</sup>	
	MAC 2311	Calculus with Analytical Geometry I	4	
	MAC 2312	Calculus with Analytical Geometry II	4	
	EGS 1006C	Introduction to the Engineering Profession	1	
	EGN 1007C	Engineering Concepts and Methods	1	
<b>Associate in Arts Degree Program Total (Electrical Engineering Pathway)</b>				<b>60<sup>c</sup></b>
<b>Coursework Beyond 60 Credits Required for a General Associate in Arts Degree</b>				
Mathematics	MAC 2313	Calculus with Analytical Geometry III	4	
	MAP 2302	Differential Equations	3	
Natural Sciences	PHY 2048C	Physics I with Calculus w/ Lab	5	
	PHY 2049C	Physics II with Calculus w/ Lab	5	
Engineering	EGN 2421	Engineering Analysis	3	
	EGS 2004C	Electrical Networks	3	
	EGN 2210C	Engineering Analysis and Computation	3	
	EGN 2440	Probability and Statistics for Engineers	3	
<b>Additional Coursework Total</b>			<b>29</b>	
				<b>Total variable range of credits 60-89</b>

<sup>a</sup>If students have satisfied math and foreign language through entry assessment placement or high school coursework, courses listed in excess of 60 hours will satisfy credits in the elective block.

<sup>b</sup>One credit counted toward General Education for a total of 36 general education credits and 24 elective credits.

<sup>c</sup>While a general Associate in Arts degree can be completed in 60 hours, the electrical engineering degree pathway could exceed that based upon a student's math entry assessment placement or level of completion

*in algebra, high school foreign language completion, and high school chemistry.*

## **WORKFORCE DEMAND AND UNMET NEED**

3.1 Describe the workforce demand and unmet need of the baccalaureate degree program to which the specialized associate in arts transfer degree program articulates that incorporates, at a minimum, the shaded information from Sections 3.1.1 and 3.1.3. The Standard Occupational Classification (SOC) system is used to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data. For proposed programs without a listed SOC linkage, provide a rationale for the identified SOC code(s). If using a SOC that is not on the CIP to SOC crosswalk, please justify why the SOC aligns with the articulated baccalaureate degree program.

The Specialized Associate in Arts Transfer (SAAT) degree program is intentionally designed to align with and transfer seamlessly into a baccalaureate program in Electrical Engineering or a closely related STEM field. This pathway prepares students for high-demand careers associated with SOC codes 11-9041 (Architectural and Engineering Managers) and 17-2071 (Electrical Engineers). The inclusion of Computer Hardware Engineers (17-2061) and Electronics Engineers (17-2072) is also appropriate, as these occupations draw on the broader competencies cultivated in bachelor's-level engineering programs—particularly those emphasizing circuits, systems design, and embedded technologies. Together, these high-skill, high-wage fields are projected to generate 367 total job openings in Workforce Region 12 by 2033, demonstrating strong and sustained regional demand. Electrical Engineers alone are expected to experience 8% growth, with more than 684 total openings, underscoring the importance of maintaining a well-prepared talent pipeline. Both the Florida Department of Economic Opportunity and the U.S. Bureau of Labor Statistics identify the bachelor's degree as the required education level for these occupations. Regional employment data from Florida Commerce further show an average of 367 annual job openings across aligned SOCs from 2025 to 2033. By comparison, the University of Central Florida awards an average of 140 relevant bachelor's degrees per year, leaving an unmet regional need of approximately 220 graduates annually. The SAAT degree program plays a critical role in closing this gap. It provides students with essential general education, mathematics, and science coursework that supports successful transfer into the University of Central Florida's baccalaureate Electrical Engineering (B.S.E.E.) program. The data demonstrates a strong connection between the SAAT pathway and workforce demand in engineering-related fields, validating the SOC linkages and reinforcing the program's relevance in supporting regional economic and workforce needs.

3.2 Describe any other evidence of workforce demand and unmet need of the articulated baccalaureate degree program, which may include qualitative or quantitative data and

information not reflected in the data presented in Sections 3.1.1 and 3.1.3, such as local economic development initiatives, emerging industries in the area, or evidence of rapid growth.

Click or tap here to enter text.

**DEMAND: FLORIDA DEPARTMENT OF COMMERCE (FloridaCommerce)**

**EMPLOYMENT PROJECTIONS**

3.1.1 The Excel spreadsheet below is set up with predefined formulas. To activate the spreadsheet, right click within the spreadsheet, go to “Worksheet Object”, and then “Open”. To exit, save any changes and exit out of the spreadsheet. Alternatively, double click anywhere on the table. To exit the spreadsheet, single click anywhere outside of the table.

**INSTRUCTIONS FOR COMPLETING THE DEMAND SECTION**

Name/Title	SOC Code	Workforce Region	2025	2033	**Level Change	***Total Job Openings	FL	BLS
Architectural and Engineering Managers	11-9041	12	1528	1658	8.5	946	B	B
Aerospace Engineers	17-2011	12	349	401	14.9	213	B	B
Computer Hardware Engineers	17-2061	12	565	616	9.0	289	B	B
Electrical Engineers	17-2071	12	1285	1388	8.0	684	B	B
Electronics Engineers, Except Computer	17-2072	12	1452	1593	9.7	803	B	B
					Total	367		

\*Please replace the “Base Year” and “Projected Year” headers with the years reflected in the employment projections (e.g., Base Year is 2024, Projected Year is 2032).

\*\*Please note that the “Level Change” column in Table 3.1.1 corresponds to the “Percent Growth” employment projections data produced by FloridaCommerce.

\*\*\*Please note that the “Total Job Openings” columns is preset to be divided by 8.



## ESTIMATES OF UNMET NEED

3.1.3 The Excel spreadsheet below is set up with predefined formulas. To activate the spreadsheet, right click within the spreadsheet, go to “Worksheet Object”, and then “Open”. To exit, save any changes and exit out of the spreadsheet. Alternatively, double click anywhere on the table. To exit the spreadsheet, single click anywhere outside of the table.

**INSTRUCTIONS FOR COMPLETING THE ESTIMATES OF UNMET NEED SECTION:** If data are not available for completers in the university’s workforce area, please report statewide data. You may note these are statewide figures.

	Demand	Supply		Range of Estimated Unmet Need	
	(A)	(B)	(C)	(A-B)	(A-C)
	Total Job Openings	Most Recent Year	5-year average or average of years available if less than 5 years	Difference	Difference
FloridaCommerce Total	367	145	140	222	227
Other Totals				0	0

## SPECIALIZED ASSOCIATE IN ARTS TRANSFER DEGREE REQUIREMENTS

4.1 In accordance with s. 1007.25(9)(b)(3), F.S., except for developmental education required pursuant to s. 1008.30, F.S., all required coursework must count toward the specialized associate in arts transfer degree or the baccalaureate degree.

Requirement Area	Predetermined and Specified Performance Requirements
<b>General Education Core</b>	Pursuant to s. 1007.25(3), F.S., and Rule 6A-14.0303, F.A.C., complete at least one general education core course in each of the five subject disciplines (communications, mathematics, humanities, social science, natural science) for a total of 15 credits to fulfill the general education requirement. <b>(Note:</b> Approved accelerated mechanisms may be used to fulfill this requirement.)
<b>Institutional General Education</b>	Pursuant to s. 1007.25(3), F.S., and Rule 6A-14.0303, F.A.C., complete the remaining 21 credits, in addition to the core, for a total 36 credits of institutional general education to fulfill the general education requirement. <b>(Note:</b> Approved accelerated mechanisms may be used to fulfill this requirement.)
<b>Electives</b>	Pursuant to s. 1007.25(9), F.S., complete the remaining 24 elective credits to fulfill the total 60 credits for the attainment of an associate degree. <b>(Note:</b> Electives should be selected by program and/or pathway and may be used to fulfill associate in arts requirements and/or baccalaureate program prerequisites. Approved accelerated mechanisms may be used to fulfill this requirement.)
<b>Communication and Computation</b>	Pursuant to Rule 6A-10.030, F.A.C., complete 6 credits in English and 6 credits in mathematics to fulfill the assessment procedures for college-level communication and computation. <b>(Note:</b> Institutional general education courses and/or electives may be used to fulfill this requirement. Approved accelerated mechanisms may be used to fulfill this requirement.)
<b>Foreign Language</b>	Pursuant to s. 1007.262, F.S., and Rule 6A-10.02412, F.A.C., complete 2 years in high school or 8 college credits in the same foreign language, which may be satisfied via CLEP or challenge exam. <b>(Note:</b> Institutional general education courses and/or electives may be used to fulfill this requirement. Approved accelerated mechanisms may be used to fulfill this requirement.)
<b>Civic Literacy Competency</b>	Pursuant to s. 1007.25(5), F.S. and Rule 6A-10.02413, F.A.C., complete a course (3 credits) and assessment to fulfill the civic literacy requirement. <b>(Note:</b> Institutional or core general education courses and/or electives may be used to fulfill the course requirement. Approved accelerated mechanisms may be used to fulfill this requirement.)
Requirements Beyond Sixty (60) Credits	
<b>Specialized Coursework</b>	Pursuant to s. 1007.25(5), F.S. and Rule 6A-14.094, F.A.C., complete additional specified credits beyond the 60 credits required for the general associate in arts degree for admission to a baccalaureate degree program. <b>(Note:</b> Specialized coursework may include course-level prerequisites as part of the specialized associate in arts transfer degree program, baccalaureate degree program prerequisites, or a combination).
<b>Baccalaureate Program Prerequisites</b>	The proposing college and receiving university should consult the Common Prerequisites Manual (CPM). The CPM lists the prerequisite courses and alternatives for each university degree program. Students must complete all required prerequisites to be admitted into an upper division program. <b>(Note:</b> Institutional general education, electives, and/or specialized coursework may be used to fulfill this requirement.)

5.1 Program of Study of at least sixty (60) college credits after the attainment of predetermined and specified performance requirements. For the articulated baccalaureate degree identified in Section 1.4, list all courses required by term. Include credit per term and total credits for the program. Please include the provided abbreviations in parentheses following each course title to indicate what courses fulfill the following requirements: foreign language (**fl**), civic literacy (**cl**), general education (**ge**) including core, electives (**elec**), baccalaureate degree program prerequisites (**pre**) as identified in the Common Prerequisites Manual, and additional courses (**saat**) beyond the 60 credits required for an associate in arts general degree. Please use the continued program plan on the next page, if needed.

The Excel spreadsheet below is set up with predefined formulas. To activate the spreadsheet, right click within the spreadsheet, go to "Worksheet Object", and then "Open". To exit, save any changes and exit out of the spreadsheet. Alternatively, double click anywhere on the table. To exit the spreadsheet, single click anywhere outside of the table.

5.1.1	Associate in Arts Specialized Degree Program of Study	
Term 1	Course Title	Credit Hours
	MAT 1033 Intermediate Algebra (elec)	3
	ENC 1101 College Composition I (ge)	3
	General Education Humanities Course (ge)	3
	General Education Social and Behavioral Sciences Course (ge)	3
	Total Term Credit Hours	12
Term 2	Course Title	Credit Hours
	MAC 1105 College Algebra (ge)	3
	ENC 1102 Composition: Literature (ge)	3
	AMH 2010, AMH 2020, or POS 2041 (ge) (cl)	3
	SPC 2608 Public Speaking (ge)	3
	Total Term Credit Hours	12
Term 3	Course Title	Credit Hours
	MAC 1114 Trigonometry (ge)	3
	CHM 1025C Introductory Chemistry w/Lab (ge)	4
	Total Term Credit Hours	7
Term 4	Course Title	Credit Hours
	MAC 1140 Precalculus Algebra (ge) (elec)	4
	CHM 2045C General Chemistry I w/ Lab (ge) (pre)	4
	Foreign Language I (elec) (fl)	4
	EGS 1006C Introduction to the Engineering Profession (elec) (saat)	1
	Total Term Credit Hours	13
Term 5	Course Title	Credit Hours
	MAC 2311 Calculus with Analytical Geometry I (elec) (pre)	4
	Foreign Language II (elec) (fl)	4
	EGN 1007C Engineering Concepts and Methods (elec) (saat)	1
	LIT 2000 Introduction to Literature or PHI 2010 Introduction to Philosophy (ge)	3
	Total Term Credit Hours	12
Term 6	Course Title	Credit Hours
	PHY 2048C Physics I with Calculus w/Lab (pre)	5
	MAC 2312 Calculus with Analytic Geometry II (pre)	4
	Total Term Credit Hours	9

5.1.1	<b>Associate in Arts Specialized Degree Program of Study (Continued)</b>	
<b>Term 7</b>	<b>Course Title</b>	<b>Credit Hours</b>
	MAC 2313 Calculus with Analytic Geometry III (pre)	4
	PHY 2049C Physics II with Calculus w/ Lab (pre)	5
	EGN 2210C Engineering Analysis and Computation (saat)	3
	Total Term Credit Hours	12
<b>Term 8</b>	<b>Course Title</b>	<b>Credit Hours</b>
	MAP 2302 Differential Equations (pre)	3
	EGS 2004C Electrical Networks (saat)	3
	EGN 2421 Engineering Analysis (saat)	3
	EGN 2440 Probability and Statistics for Engineers (saat)	3
	Total Term Credit Hours	12
<b>Term 9</b>	<b>Course Title</b>	<b>Credit Hours</b>
	Total Term Credit Hours	0
<b>Term 10</b>	<b>Course Title</b>	<b>Credit Hours</b>
	Total Term Credit Hours	0
<b>Term 11</b>	<b>Course Title</b>	<b>Credit Hours</b>
	Total Term Credit Hours	0
<b>Term 12</b>	<b>Course Title</b>	<b>Credit Hours</b>
	Total Term Credit Hours	0
	<b>Program Total Credit Hours: 60-89</b>	

*\*Total credits vary based on student entry point in the pathway as described in section 2.1*

**Instructions:** The completed and signed articulation agreement form, Form No. SAAT-03, must be attached to Appendix A of this completed proposal form, Form No. SAAT-02.

**ARTICULATION AGREEMENT  
Form No. SAAT-03**

6.1 The proposed specialized associate in arts transfer degree program shall articulate into the specified state university and baccalaureate degree program below. The total credit hours must include all required courses of the associate in arts specialized transfer degree program and the articulated baccalaureate degree program.

<b>College Name</b>	<b>University Name</b>	<b>Total Credit Hours</b>
Click or tap here to enter text.	Click or tap here to enter text.	
<b>Specialized AA Transfer Degree Program Name</b>	<b>Baccalaureate Degree Program Name</b>	
Click or tap here to enter text.	Click or tap here to enter text.	
<b>Specialized AA Transfer Degree Program Credit Hours</b>	<b>Baccalaureate Degree Program Credit Hours</b>	
Click or tap here to enter text.	Click or tap here to enter text.	

6.2 The specialized associate in arts transfer degree program shall include the following requirements. Please check the boxes below to indicate that the Program Plan in Section 5.1 includes the requirements below.

<b>General Education Core</b>	<input type="checkbox"/> 15 credits
<b>Institutional General Education</b>	<input type="checkbox"/> 21 credits
<b>Electives</b>	<input type="checkbox"/> 24 credits
<b>Communication and Computation</b>	<input type="checkbox"/> 6 credits
<b>Foreign Language</b>	<input type="checkbox"/> 8 credits
<b>Civic Literacy Competency</b>	<input type="checkbox"/> 3 credits and an assessment

6.3 The baccalaureate degree program shall include the following baccalaureate degree program requirements for the proposed articulation agreement between the specialized associate in arts transfer degree and the baccalaureate degree program indicated in Section 1.4.

<b>Common Prerequisites</b>	Please list the required prerequisites and alternatives as they appear in the Common Prerequisites Manual for the articulated baccalaureate degree program. Click or tap here to enter text.
<b>Admission Requirements</b>	Please list academic GPA, test scores, fingerprints, health screenings, background checks, signed releases, and any other program admission requirements, if applicable. Click or tap here to enter text.
<b>Other Requirements</b>	Please list any other requirements that a student completing a specialized associate in arts transfer degree program may need as part of the articulated baccalaureate degree program to seamlessly transfer. Click or tap here to enter text.

<b>College Representative Signature</b> Click or tap here to enter text.	<b>University Representative Signature</b> Click or tap here to enter text.
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## COLLEGE RESPONSE TO UNIVERSITY COMMENTS

7.1 Provide comments received from any college or state university for this proposed program. The proposing college must submit a response and include any necessary supporting documentation, if applicable.

- Comments Received:  
None

- College Response:  
N/A

## PROGRAM IMPLEMENTATION TIMELINE

8.1	Indicate the date the Notice of Intent (NOI) was submitted to DFC.	July 13, 2025
8.2	Indicate the date the initial proposal was submitted to DFC.	January 21, 2026
8.3	Indicate the date the completed proposal was submitted to DFC.	
8.4	<p>Indicate the date the proposal is targeted for State Board of Education (SBOE) consideration.</p> <p>Please note that from the date the DFC receives the finalized proposal, the Commissioner has 45 days after DFC receives a completed proposal to recommend to the SBOE approval or disapproval of the proposal. Please take into account the date you plan to submit the proposal in accordance with the <a href="#">next SBOE meeting</a>.</p>	April 15, 2026

**Appendix A**

Specialized Associate in Arts Transfer Degree Articulation Agreement  
(Attach Completed and Signed Articulation Agreement, Form No. SAAT-03)