

COMPUTER ENGINEERING (60 Credits)**Guided Pathway: Associate of Arts****CONCENTRATION: Computer Engineering (FULL TIME).**For more information, visit www.fgc.edu and your academic advisor.

Meta-major: STEM

University Transfer: **FAMU, FAU, FIU, FSU, UCF, UF, USF, UWF**

The *Associate of Arts* degree is a collegiate degree program consisting of lower-division courses intended for transfer to baccalaureate programs at the universities listed aboveⁱⁱ. This plan is for those who are interested in earning a baccalaureate degree in *Computer Engineering*.

This is the sequence of courses for students interested in majoring in *Computer Engineering* at one of the universities listed above. It does not represent a contract, nor does it guarantee course availability or entry into your university of choice. This pathway presents classes needed for your baccalaureate degree in *Computer Engineering*. Courses that complete the degree are listed below. As always, visit your academic advisor each semester to help you keep on track for graduation.

Note: All AA degrees must satisfy the Foreign Language requirement for graduation. Please see catalog**FULL-TIME
Pathway****SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS**

SEMESTER 1	ACTION ITEMS
ENC 1101 – Freshman Composition I ^{iv} (<i>Communication core</i>)	<ul style="list-style-type: none">Meet with your advisor to confirm academic and career goals by the end of the semester.REQUIRED: Complete the <i>Computer Competency</i> course within Canvas.Signup for and pass the Florida Civic Literacy Exam.Consult your advisor to make sure you have met <i>the Foreign Language requirement</i>.At the end of the semester, begin research on college and universities where you want to seek to transfer. Meet with a career advisor/coach to research your career options with a degree in <i>Computer Engineering</i>.Remember to start collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>)
Choose one: AMH 2020 – US History from 1865 OR POS 1041 – American Government ^{iv} (<i>Social Science & civic literacy</i>)	
MAC 1105 – College Algebra ^{iv vi} (<i>Mathematics core</i>)	
CHM 2045/L – General Chemistry I/Lab (<i>Physical Science</i>) (4 cr)	
TOTAL SEMESTER CREDIT HOURS: 13	
SEMESTER 2	ACTION ITEMS
Choose one: ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature ^{iv} (<i>Communication</i>)	<ul style="list-style-type: none">Meet with your advisor to confirm or update your academic/career pathway and program of study.Ask about transfer advising to discuss options to pursue the bachelor’s degree.Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.
MAC 1140 – Precalculus ^{iv} (<i>Mathematics</i>)	
MAC 1114 - Trigonometry ^{iv} (<i>Elective Prerequisite</i>)	
Choose one: MUL 1010 – Music Appreciation OR THE 2000 – Theatre Appreciation OR ARH 1000 – Art Appreciation OR HUM 2020 – Introduction to Humanities ^{iv} (<i>Humanities core</i>)	
Choose one: BSC 1005 – Biological Principles for Non-Majors OR Any general education BOT or BSC course (<i>Biological Science Core</i>)	
TOTAL SEMESTER CREDIT HOURS: 15-16	

SEMESTER 3	ACTION ITEMS
SLS 2370 – Personal Academic & Career Engagement ^{iv} (3rd Soc Sci)	<ul style="list-style-type: none">• Meet with your advisor to confirm or update your academic/career pathway and program of study.• Ask about transfer advising to discuss options to pursue the bachelor’s degree.• Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">◦ You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)• Check with your advisor for important deadlines and dates• Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.
Choose one: PSY 2012 – General Psychology OR SYG 1000 – Introduction to Sociology OR SYG 2300 – Introduction to Social Psychology OR Any DEP or ECO course (Social Science) ^{iv}	
MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)	
TOTAL SEMESTER CREDIT HOURS: 10	
SEMESTER 4	ACTION ITEMS
Choose one: SPC 2608 – Public Speaking OR SPC 1017 – Oral Communications OR SPC 1061 – Introduction to Academic and Professional Speaking ^{iv} (Communications)	<ul style="list-style-type: none">• Begin applying to your top choice universities.• Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">◦ You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)• Check with your advisor for important deadlines and dates
PHY 2048C – General Physics with Calculus I (Physical Science/ Prerequisite) (5 cr)	
MAC 2312 – Calculus II ^{iv} (Elective Prerequisite) (4 cr)	
Choose one: COP 2334C – Beginning C++ Programming OR COP 2800 – JAVA (Elective Prerequisite)	
TOTAL SEMESTER CREDIT HOURS: 15	
SEMESTER 5	ACTION ITEMS
MAC 2313 – Calculus III ^{iv v} (Elective Prerequisite) (4 cr)	<ul style="list-style-type: none">• After reviewing your final program of study, apply for Graduation.<ul style="list-style-type: none">◦ Meet with your advisor to apply for the degree.◦ Sign up for commencement.• Request final transcripts to be sent to the college or university to where you will transfer.• Congratulations, graduate!
Choose one: LIT 2000 – Introduction to Literature OR Any general education AML, ENL, LIT, PHI or REL courses (Humanities) ^{iv}	
MAP 2302 – Elementary Differential Equations ^{iv v} (Elective Prerequisite)	
PHY 2049C – General Physics with Calculus II (Elective Prerequisite) (5 cr)	
TOTAL SEMESTER CREDIT HOURS: 15	
AACO DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 68-69 ^{vi} CREDIT HOURS	

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered the college on or before this date.

ⁱⁱ Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by FGC to award the degree.

ⁱⁱⁱ This is not an official degree plan. For official degree requirements, [click here](#).

^{iv} You must earn a grade of "C" or better in all Gordon Rule classes.

^v This course is only offered in the spring term.

^{vi} If student enrolls ready for MAC 1114/1140, then MAC 1105 is not necessary, bringing the Total Pathway credits to 65-66.

COMPUTER ENGINEERING (60 Credits)**Guided Pathway: Associate of Arts****Concentration: Computer Engineering (PART TIME)**For more information, visit www.fgc.edu and your academic advisor.

Meta-major: STEM

University Transfer: **FAMU, FAU, FIU, FSU, UCF, UF, USF, UWF**

The **Associate of Arts** degree is a collegiate degree program consisting of lower-division courses intended for transfer to baccalaureate programs at the universities listed aboveⁱⁱ. This plan is for those who are interested in earning a baccalaureate degree in **Computer Engineering**.

This is the sequence of courses for students interested in majoring in **Computer Engineering** at one of the universities listed above. It does not represent a contract, nor does it guarantee course availability or entry into your university of choice. This pathway presents classes needed for your baccalaureate degree in **Computer Engineering**. Courses that complete the degree are listed below. As always, visit your academic advisor each semester to help you keep on track for graduation.

Note: All AA degrees must satisfy the Foreign Language requirement for graduation. Please see catalog**PART-TIME
Pathway****SEMESTER BY SEMESTER MAP FOR PART-TIME STUDENTS**

SEMESTER 1		ACTION ITEMS	
ENC 1101 – Freshman Composition I ^{iv} (Communication core)		<ul style="list-style-type: none">Meet with your advisor to confirm academic and career goals by the end of the semester.REQUIRED: Complete the <i>Computer Competency</i> course within Canvas.Consult your advisor to make sure you have met <i>the Foreign Language requirement</i>.Remember to start collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)	
MAC 1105 – College Algebra ^{iv vi} (Mathematics core)			
TOTAL SEMESTER CREDIT HOURS: 6			
SEMESTER 2		ACTION ITEMS	
Choose one: AMH 2020 – US History from 1865 OR POS 1041 – American Government ^{iv} (Social Science & civic literacy)		<ul style="list-style-type: none">At the end of the semester, begin research on college and universities where you want to seek to transfer. Meet with a career advisor/coach to research your career options with a degree in <i>Computer Engineering</i>.Signup for and pass the Florida Civic Literacy Exam.Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.	
MAC 1140 – Precalculus ^{iv} (Mathematics)			
Choose one: BSC 1005 – Biological Principles for Non-Majors OR Any general education BOT or BSC course (Biological Science Core) (3-4 cr)			
TOTAL SEMESTER CREDIT HOURS: 9-10			
SEMESTER 3		ACTION ITEMS	
MAC 1114 - Trigonometry ^{iv} (Elective Prerequisite)		<ul style="list-style-type: none">Meet with your advisor to confirm or update your academic/career pathway and program of study.Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)	
Choose one: ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature ^{iv} (Communication)			
Choose one: MUL 1010 – Music Appreciation OR THE 2000 – Theatre Appreciation OR ARH 1000 – Art Appreciation OR HUM 2020 – Introduction to Humanities ^{iv} (Humanities core)			
TOTAL SEMESTER CREDIT HOURS: 9			
SEMESTER 4		ACTION ITEMS	
MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)		<ul style="list-style-type: none">Meet with your advisor and ask about transfer advising to discuss options to pursue the bachelor's degree.Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370.	
CHM 2045/L – General Chemistry I/Lab (Physical Science) (4 cr)			
TOTAL SEMESTER CREDIT HOURS: 8			

SEMESTER 5		ACTION ITEMS	
MAC 2312 – Calculus II ^{iv} (Elective Prerequisite) (4 cr)		<ul style="list-style-type: none">• Meet with your advisor to confirm academic and career goals by the end of the semester.• Meet with a career advisor/coach to research your career options.• Continue collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.• Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">○ You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)	
Choose one: COP 2334C – Beginning C++ Programming OR COP 2800 – JAVA (Elective Prerequisite)			
Choose one: SPC 2608 – Public Speaking OR SPC 1017 – Oral Communications OR SPC 1061 – Introduction to Academic and Professional Speaking ^{iv} (Communications)			
TOTAL SEMESTER CREDIT HOURS: 10			
SEMESTER 6		ACTION ITEMS	
MAC 2313 – Calculus III ^{iv v} (Elective Prerequisite) (4 cr)		<ul style="list-style-type: none">• Meet with your advisor to confirm or update your academic/career pathway and program of study.• Continue collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370.	
MAP 2302 – Elementary Differential Equations ^{iv v} (Elective Prerequisite)			
SLS 2370 – Personal Academic & Career Engagement ^{iv} (3rd Soc Sci)			
TOTAL SEMESTER CREDIT HOURS: 10			
SEMESTER 7		ACTION ITEMS	
Choose one: LIT 2000 – Introduction to Literature OR Any general education AML, ENL, LIT, PHI or REL courses (Humanities) ^{iv}		<ul style="list-style-type: none">• Begin applying to your top choice universities.• Begin applying for Financial Aid and Scholarships<ul style="list-style-type: none">○ You can start the FAFSA in October for the next academic year. (i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)• Check with your advisor for important deadlines and dates	
PHY 2048C – General Physics with Calculus I (Elective Prerequisite)(5 cr)			
TOTAL SEMESTER CREDIT HOURS: 8			
SEMESTER 8		ACTION ITEMS	
Choose one: PSY 2012 – General Psychology OR SYG 1000 – Introduction to Sociology OR SYG 2300 – Introduction to Social Psychology OR Any DEP or ECO course (Social Science) ^{iv}		<ul style="list-style-type: none">• After reviewing your final program of study, apply for Graduation.<ul style="list-style-type: none">○ Meet with your advisor to apply for your degree.○ Sign up for commencement.• Request final transcripts to be sent to the college or university to where you will transfer.• Congratulations, graduate!	
PHY 2049C – General Physics with Calculus II (Elective Prerequisite) (5 cr)			
TOTAL SEMESTER CREDIT HOURS: 8			
AACO DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 68-69 ^{vi} CREDIT HOURS			

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered the college on or before this date.

ⁱⁱ Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by FGC to award the degree.

ⁱⁱⁱ This is not an official degree plan. For official degree requirements, [click here](#).

^{iv} You must earn a grade of "C" or better in all Gordon Rule classes.

^v This course is only offered in the spring term.

^{vi} If student enrolls ready for MAC 1114/1140, then MAC 1105 is not necessary, bringing the Total Pathway credits to 65-66.