BIOLOGICAL/BIOSYSTEMS ENGINEERING (60 Credits)

Guided Pathway: Associate of Arts

Concentration: Biological/Biosystems Engineering (FULL TIME).

For more information, visit www.fgc.edu and your academic advisor.

Meta-major: STEM University Transfer: **UF**

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 above. This plan is for those who are interested in earning a baccalaureate degree in *Biological/Biosystems Engineering*.

This is the sequence of courses for students interested in majoring in *Biological/Biosystems 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 *Biological/Biosystems 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.



Pathway

GATEWAL

Note: All AA degrees must satisfy the Foreign Language requirement for graduation. Please see catalog

SEMESTER BY SEMESTER M	IAP FOR FULL-TIME STUDENTS
SEMESTER 1	ACTION ITEMS
ENC 1101 – Freshman Composition I $^{\mathrm{iv}}$ (Communication core)	 Meet with your advisor to confirm academic and career goals by the end of the semester. REQUIRED: Complete the Computer Competency course within Canvas. Signup for and pass the Florida Civic Literacy Exam. Consult your advisor to make sure you have met the Foreign Language requirement. 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 Biological/Biosystems Engineering. Remember to start collecting artifacts from your courses for your Academic & Career Portfolio in SLS 2370. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025)
Choose one: AMH 2010 – US History to 1877 <i>OR</i> AMH 2020 – US History from 1877 <i>OR</i> POS 1041 – American Government iv (Social Science & civic literacy)	
MAC 1105 – College Algebra (Mathematics core)	
BSC 2010C – General Biology I with Lab (Biological Science Core) (4 cr)	
TOTAL SEMESTI	ER CREDIT HOURS: 13
SEMESTER 2	ACTION ITEMS
Choose one: ENC 1102 – Freshman Composition II <i>OR</i> CRW 2001 – Creative Writing <i>OR</i> ENC 1141 – Writing about Literature ^{iv} (Communication)	 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} (Mathematics core)	
MAC 1114 - Trigonometry iv (Elective Prerequisite)	
Choose one: ARH 1000 - Art Appreciation <i>OR</i> HUM 2020 - Introduction to Humanities <i>OR</i> MUL 2010 - Music Appreciation <i>OR</i> THE 2000 - Theatre Appreciation ^{iv} (Humanities core)	
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: 15

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MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)	 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 You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025) 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		
TOTAL SEMESTER CREDIT HOURS: 7		
SEMESTER 4	ACTION ITEMS	
SLS 2370 – Personal Academic & Career Engagement iv (3rd Soc Sci)	Begin applying to your top choice universities.	
MAC 2312 – Calculus II iv (Elective Prerequisite) (4 cr)	Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025) Check with your advisor for important deadlines and dates	
CHM 2045/L – General Chemistry I/Lab (Physical Science) (4 cr)		
PHY 2048C – General Physics with Calculus I (Elective Prerequisite) (5 cr)		
TOTAL SEMESTE	R CREDIT HOURS: 16	
SEMESTER 5	ACTION ITEMS	
Choose one: LIT 2000 – Introduction to Literature OR Any general education AML, ENL, LIT, PHI or REL courses (Humanities) iv	 After reviewing your final program of study, apply for Graduation. 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! 	
CHM 2046/L – General Chemistry II/Lab (Elective Prerequisite) (4 cr)		
MAP 2302 – Elementary Differential Equations iv v (Elective Prerequisite))		
PHY 2049C – General Physics with Calculus II (Elective Prerequisite) (5 cr)		
MOTAL CRATCORD	CDEDIT HOURS, 15	

ACTION ITEMS

TOTAL SEMESTER CREDIT HOURS: 15

AABE DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 66 CREDIT HOURS

Degree plans may change in later catalogs. You may use this pathway if you entered the college on or before this date. It Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by FGC to award the degree. Ill 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

SEMESTER 3

BIOLOGICAL/BIOSYSTEMS ENGINEERING (60 Credits)

Guided Pathway: Associate of Arts

Choose one: ARH 1000 - Art Appreciation OR

HUM 2020 – Introduction to Humanities **OR**

THE 2000 - Theatre Appreciation (Humanities core)

MUL 2010 - Music Appreciation OR

Concentration: Biological/Biosystems Engineering (PART TIME).

For more information, visit www.fgc.edu and your academic advisor.

academic advisor each semester to help you keep on track for graduation.

Meta-major: STEM

University Transfer: UF

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 above. This plan is for those who are interested in earning a baccalaureate degree in *Biological/Biosystems Engineering*.

This is the sequence of courses for students interested in majoring in *Biological/Biosystems 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 *Biological/Biosystems Engineering*. Courses that complete the degree are listed below. As always, visit your



PART-TIME
Pathway

Note: All AA degrees must satisfy the Foreign Language requirement for graduation. Please see catalog

SEMESTER BY SEMESTER MAP FOR PART-TIME STUDENTS		
SEMESTER 1	ACTION ITEMS	
ENC 1101 – Freshman Composition I iv (Communication core)	 Meet with your advisor to confirm academic and career goals by the end of the semester. REQUIRED: Complete the Computer Competency course within Canvas. Consult your advisor to make sure you have met the Foreign Language requirement. Remember to start collecting artifacts from your courses for your 	
MAC 1105 – College Algebra ^{iv} (Mathematics core)	Academic & Career Portfolio in SLS 2370. • Begin applying for Financial Aid and Scholarships • You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025)	
TOTAL SEMEST	ER CREDIT HOURS: 6	
SEMESTER 2	ACTION ITEMS	
Choose one: ENC 1102 – Freshman Composition II OR CRW 2001 – Creative Writing OR ENC 1141 – Writing about Literature ^{iv} (Communication) BSC 2010C – General Biology I with Lab (Biological Science Core) (4 cr) MAC 1140 – Precalculus iv (Mathematics core)	 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>Biological/Biosystems Engineering</i>. Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370. 	
TOTAL SEMESTE	ER CREDIT HOURS: 10	
SEMESTER 3	ACTION ITEMS	
MAC 1114 - Trigonometry iv (Mathematics core)	Meet with your advisor to confirm or update your academic/career pathway and program of study.	
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	 Signup for and pass the Florida Civic Literacy Exam. Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025) 	
Choose one: AMH 2010 – US History to 1877 <i>OR</i> AMH 2020 – US History from 1877 <i>OR</i> POS 1041 – American Government iv (Social Science & civic literacy)		
TOTAL SEMESTER CREDIT HOURS: 9		
SEMESTER 4	ACTION ITEMS	
MAC 2311 – Calculus I ^{iv} (Elective Prerequisite) (4 cr)	Meet with your advisor and ask about transfer advising to discuss	

TOTAL SEMESTER CREDIT HOURS: 7

Meet with your advisor and ask about transfer advising to discuss

Continue collecting artifacts from courses for your Academic &

options to pursue the bachelor's degree.

Career Portfolio in SLS 2370.

SEMESTER 5	ACTION ITEMS	
MAC 2312 – Calculus II ^{iv} (Elective Prerequisite) (4 cr)	 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 You can start the FAFSA in October for the next academic year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025) 	
CHM 2045/L – General Chemistry I/Lab ^{iv} (Physical Science) (4 cr)		
TOTAL SEMESTER CREDIT HOURS: 8		
SEMESTER 6	ACTION ITEMS	
SLS 2370 – Personal Academic & Career Engagement iv (3rd Soc Sci)		
MAP 2302 – Elementary Differential Equations iv v (Elective Prerequisite)	Meet with your advisor to confirm or update your academic/career pathway and program of study.	
CHM 2045/L – General Chemistry I/Lab iv (Physical Science) (4 cr)		
TOTAL SEMESTER CREDIT HOURS: 10		
SEMESTER 7	ACTION ITEMS	
PHY 2048C – General Physics with Calculus I (Elective Prereq) (5 cr)	 Begin applying to your top choice universities. Begin applying for Financial Aid and Scholarships You can start the FAFSA in October for the next academic 	
Choose one: SPC 2608 – Public Speaking OR SPC 1017 – Oral Communications OR SPC 1061 – Introduction to Academic and Professional Speaking ^{iv} (Communications)	 year. (i.e., in October 2024, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2025) Check with your advisor for important deadlines and dates 	
TOTAL SEMESTER CREDIT HOURS: 8		
SEMESTER 8	ACTION ITEMS	
PHY 2049C – General Physics with Calculus II (Elective Prereq) (5 cr)	 After reviewing your final program of study, apply for Graduation. Meet with your advisor to apply for your degree. Sign up for commencement. 	
Choose one: LIT 2000 – Introduction to Literature <i>OR</i>	Request final transcripts to be sent to the college or university to	
Any general education AML, ENL, LIT, PHI or REL courses (Humanities) iv	where you will transfer. • Congratulations, graduate!	

AABE DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 66 CREDIT HOURS

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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