MATERIALS ENGINEERING (60 Credits)

Guided Pathway: Associate of Arts

Concentration: Materials 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 *Materials Engineering*.

This is the sequence of courses for students interested in majoring in *Materials 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 *Materials 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.



FULL-TIME Pathway

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

SEMESTER BY SEMESTER MAP FOR FULL-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. 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 Materials 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 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024)
Choose one: AMH 2020 – US History from 1865 <i>OR</i> POS 1041 – American Government iv (Social Science & civic literacy)	
MAC 1105 - College Algebraiv vi (Mathematics core)	
Choose one: BSC 1005 – Biological Principles for Non-Majors <i>OR</i> Any general education BOT, BSC, MCB, or ZOO course (Biological Science) (3-4 cr)	
TOTAL SEMESTER	R CREDIT HOURS: 12-13
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)	
MAC 1140 - Precalculus iv vi (Mathematics)	Meet with your advisor to confirm or update your academic/career pathway and program of study.
MAC 1114 - Trigonometry iv vi (Elective Prerequisite)	Ask about transfer advising to discuss options to pursue the
CHM 2045/L – General Chemistry I/Lab (Physical Science) (4 cr)	bachelor's degree.Continue collecting artifacts from courses for your Academic &
Choose one: MUL 1010 – Music Appreciation <i>OR</i> THE 2000 – Theatre Appreciation <i>OR</i> ARH 1000 – Art Appreciation <i>OR</i> HUM 2020 – Introduction to Humanities iv (Humanities core)	Career Portfolio in SLS 2370.

TOTAL SEMESTER CREDIT HOURS: 16

SEMESTER 3	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	 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 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: SPC 2608 – Public Speaking OR SPC 1017 – Oral Communications OR SPC 1061 – Introduction to Academic and Professional Speaking ^{iv} (Communications)		
MAC 2311 – Calculus I iv (Elective Prerequisite) (4 cr)		
TOTAL SEMESTER CREDIT HOURS: 10		
SEMESTER 4	ACTION ITEMS	
SLS 2370 – Personal Academic & Career Engagement iv (3rd Soc Sci) PHY 2048C – General Physics with Calculus I (Elective Prerequisite) (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 	
CHM 2046/L – General Chemistry II/Lab (Elective Prerequisite) (4 cr)	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	
MAC 2312 – Calculus II iv (Elective Prerequisite) (4 cr)		
TOTAL SEMESTER CREDIT HOURS: 16		
SEMESTER 5	ACTION ITEMS	
MAC 2313 – Calculus III iv v (Elective Prerequisite) (4 cr)		
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! 	
PHY 2049C – General Physics with Calculus II (Elective Prerequisite) (5 cr)		
MAP 2302 – Elementary Differential Equations iv v (Elective Prerequisite)	COPENIT HOURS, 15	

TOTAL SEMESTER CREDIT HOURS: 15

AAMA DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 69-70vi CREDIT HOURS

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

VI If student enrolls ready for MAC 2311, then MAC 1105, MAC 1114, and MAC 1140 are not necessary, bringing the Total Pathway credits to 60-61.

MATERIALS ENGINEERING (60 Credits)

Guided Pathway: Associate of Arts

HUM 2020 - Introduction to Humanities iv

Concentration: Materials Engineering (PART 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 *Materials Engineering*.

This is the sequence of courses for students interested in majoring in *Materials 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 *Materials 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.



PART-TIME Pathway

 ${\bf *Note:}\ All\ AA\ degrees\ must\ satisfy\ the\ Foreign\ Language\ requirement\ for\ graduation.\ Please\ see\ catalog {\bf *}$

(Humanities core)

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. Signup for and pass the Florida Civic Literacy Exam. Consult your advisor to make sure you have met the Foreign Language requirement. 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 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024) 	
Choose one: AMH 2020 – US History from 1865 <i>OR</i> POS 1041 – American Government iv (Social Science & civic literacy)		
MAC 1105 – College Algebraiv vi (Mathematics core)		
	ER CREDIT HOURS: 9	
SEMESTER 2	ACTION ITEMS	
CHM 2045/L – General Chemistry I/Lab (Physical Science) (4 cr)	 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>Materials Engineering</i>. Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370 	
MAC 1140 - Precalculus iv vi (Mathematics core)		
Choose one: BSC 1005 – Biological Principles for Non-Majors <i>OR</i> Any general education BOT, BSC, MCB, or ZOO course (Biological Science) (3-4 cr)		
TOTAL SEMESTER	CREDIT HOURS: 10-11	
SEMESTER 3	ACTION ITEMS	
MAC 1114 - Trigonometry iv vi (Elective Prerequisite)	Meet with your advisor to confirm or update your academic/career pathway and program of study.	
CHM 2046/L – General Chemistry II/Lab (Physical Science) (4 cr)	 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 academ year. (i.e., in October 2023, you can complete the FAFSA f if you plan to register for classes at a college or university Fall 2024) 	
Choose one: ENC 1102 – Freshman Composition II <i>OR</i> CRW 2001 – Creative Writing <i>OR</i> ENC 1141 – Writing about Literature ^{iv} (Communication)		
	ER CREDIT HOURS: 10	
SEMESTER 4	ACTION ITEMS	
MAC 2311 – Calculus I iv (Elective Prerequisite) (4 cr)	Meet with your advisor and ask about transfer advising to discuss options to pursue the bachelor's degree.	
Choose one: MUL 1010 – Music Appreciation OR THE 2000 – Theatre Appreciation OR ARH 1000 – Art Appreciation OR	 Continue collecting artifacts from courses for your Academic & Career Portfolio in SLS 2370 	

TOTAL SEMESTER CREDIT HOURS: 7

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 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024) 	
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: 7		
SEMESTER 6	ACTION ITEMS	
MAC 2313 – Calculus III iv v (Elective Prerequisite) (4 cr)	Meet with your advisor to confirm or update your academic/career	
MAP 2302 – Elementary Differential Equations iv v (Elective Prerequisite)	pathway and program of study.	
SLS 2370 - Personal Academic & Career Engagement iv (3rd Soc Sci)		
	R 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	 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 year. (i.e., in October 2023, you can complete the FAFSA for 	
PHY 2048C – General Physics with Calculus I (Elective Prerequisite) (5 cr)	 if you plan to register for classes at a college or university Fall 2024) Check with your advisor for important deadlines and dates 	
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	 After reviewing your final program of study, apply for Graduation. 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 	

TOTAL SEMESTER CREDIT HOURS: 8

where you will transfer.

Congratulations, graduate!

AAMA DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 69-70vi CREDIT HOURS

PHY 2049C - General Physics with Calculus II (Elective Prerequisite) (5 cr)

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

I 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 2311, then MAC 1105, MAC 1114, and MAC 1140 are not necessary, bringing the Total Pathway credits to 60-61.