

MATERIALS ENGINEERING

Guided Pathway/Map

NOTE: The Guided Pathway below contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online. *Please refer to your STARS guide or transfer institution for specific course requirements.

	Course #	Course Name	Semester Hours
Semester 1	ENG101	English Composition I	3
	MTH125	Calculus I	4
	History	Choose a sequence in history: HIS101 (Western Civilization) OR HIS121 (World History) OR HIS201 (US History)	3
	Fine Arts	MUS101 (Music Appreciation) OR ART100 (Art Appreciation) OR THR120 (Theatre Appreciation)	3
	ORI101	College Orientation	1
			Semester 1 Total: 14
Semester 2	ENG102	English Composition II	3
	Natural Science	PHY213 (General Physics with Calculus I)	4
	History	Choose a history course to complete the sequence: HIS102 (Western Civilization) OR HIS122 (World History) OR HIS202 (US History)	3
	Area V Elective	MTH126 (Calculus II)	4
	Area V Elective	CIS146 (Microcomputer Applications)	3
			Semester 2 Total: 17
Semester 3	Literature	Choose a literature: ENG251 or ENG252 (American Literature) OR ENG261 or ENG262 (English Literature) OR ENG271 or ENG272 (World Literature)	3
	Natural Science	PHY214 (General Physics with Calculus II)	4
	Area V Elective	MTH227 Calculus III	4
	Area V Elective	MTH238 (Applied Differential Equations I)	3
			Semester 3 Total: 14

Semester 4	Area IV Elective	Choose one: (Please see STARS Guide) ECO231 (Principles of Macroeconomics) OR ECO232 (Principles of Microeconomics) OR GEO100 (World Regional Geography) OR POL211 (American National Government) OR PSY200 (General Psychology) OR PSY210 (Human Growth & Development) OR SOC200 (Introduction to Sociology)	3
	Fine Arts	SPH106 (Fundamentals of Oral Communication) OR SPH107 (Fundamentals of Public Speaking)	3
	Area V Elective	CHM111 (College Chemistry I)	4
	Area V Elective	CIS231 (FORTRAN Programming) OR CIS251 (C++ Programming)	3
	Area V Elective	Please refer to STARS Guide.	3
			Semester 4 Total: 16
			Program Total: 61
Additional	Courses	CHM112 (College Chemistry II)	4

Links to:

Auburn University: <http://ous.auburn.edu/faculty/area-v/area-v-engineering/engineering-materials/>

University of Alabama: <https://eng.ua.edu/admissions/transfer-information/#areaV-aem-mte>

University of Alabama at Birmingham:

<https://www.uab.edu/students/admissions/images/transfer/Materials-Engineering.pdf>