Jefferson State Community College

Materials Engineering 2011-2012

Program Code T076

Name_____ Student Number_____

Associate in Science degree

Students <u>must</u> print and retain the articulation guide for Materials Engineering along with the transfer institution's Area V courses once determining Materials Engineering to be their major. This guide and the Area V course listing must be submitted to the senior institution upon transfer. Failure to do so may result in the program not being transferable. This program does not transfer to all senior public institutions in Alabama. It is the student's responsibility to become familiar with the requirements of the intended transfer senior institution. Refer to the articulation guide for this major for a listing of senior institutions with this major at jeffstateonline.com.

*A minimum of 60 hours and a minimum GPA of 2.00 is required for a degree from Jefferson State.
*A minimum of 15 hours in this program must be completed at Jefferson State to satisfy the residency requirement.

Courses for Areas II-IV must be selected from the AGSC General Course Listing found on the back of this checksheet.

Degree Requirements

Area I: Written Communication				**6**
ENG 101	_____	_____	_____	
ENG 102	_____	_____	_____	
Area II: Humanities and Fine Arts				**9**
*Literature	_____	_____	_____	3
Arts (A)	_____	_____	_____	3
Complete SPH 106 or SPH 107				3
	_____	_____	_____	
Area III: Natural Sciences and Mathematics				**12**
MTH 125S	_____	_____	_____	4
PHY 213S	_____	_____	_____	4
PHY 214S	_____	_____	_____	4
Area IV: History, Social, and Behavioral Sciences				**9**
*History	_____	_____	_____	3
+Additional History, Social, and Behavioral Sciences				6
	_____	_____	_____	
	_____	_____	_____	
(6 hours maximum of history)				

*As a part of the General Studies Curriculum, students must complete a six semester hour sequence either in literature or in history.

+Refer to AGSC transfer guide for specific course options.

Area V: Pre-Professional, Major and Elective Courses				**19-25**
Complete at least 19 hours from the following;				
MTH 126S	_____	_____	_____	4
MTH 227	_____	_____	_____	4
MTH 237	_____	_____	_____	3
MTH 238	_____	_____	_____	3
CHM 111	_____	_____	_____	4
CHM 112	_____	_____	_____	4
CIS 251	_____	_____	_____	3

I understand that I may not graduate under these requirements after summer term 2016.

_____ _____
Student's signature Date

_____ _____
Advisor Date

_____
Advisor's Telephone Number

AGSC General Course Listing

Area II: Humanities and Fine Arts **12**

Literature 3

ENG 251	American Literature I
ENG 252	American Literature II
ENG 261	English Literature I
ENG 262	English Literature II
ENG 271	World Literature I
ENG 272	World Literature II

Arts 3

ART 100	Art Appreciation (A)
ART 203	Art History I (A)
ART 204	Art History II (A)
MUS 101	Music Appreciation (A)
THR 120	Theatre Appreciation (A)
THR 126	Introduction to Theatre (A)

Additional Humanities and Fine Arts 6

PHL 106	Introduction to Philosophy
PHL 206	Ethics and Society
REL 151	Survey of the Old Testament
REL 152	Survey of the New Testament
SPH 106	Fund. of Speech Communication
SPH 107	Fund. of Public Speaking
SPA 101	Introductory Spanish I
SPA 102	Introductory Spanish II
SPA 201	Intermediate Spanish I
SPA 202	Intermediate Spanish II

Area III: Natural Sciences and Mathematics **11**

Mathematics 3

MTH 110	Finite Mathematics
MTH 112	Precalculus Algebra
MTH 113	Precalculus Trigonometry
MTH 115	Precalculus Algebra & Trig
MTH 120	Calculus and Its Applications
MTH 125	Calculus I
MTH 126	Calculus II
MTH 227	Calculus III
MTH 237	Linear Algebra
MTH 238	Applied Differential Equations I

Natural Sciences 8

AST 220	Introduction to Astronomy
BIO 101	Introduction to Biology
BIO 102	Introduction to Biology II
BIO 103	Principles of Biology I
BIO 104	Principles of Biology II
CHM 104	Intro to Inorganic Chemistry
CHM 105	Intro to Organic Chemistry
CHM 111	College Chemistry I
CHM 112	College Chemistry II
IDH 107	Disc: Questions, Hypotheses/Exp
IDH 109	Cont. Prob. In Science & Tech
PHS 111	Physical Science I
PHS 112	Physical Science II
PHY 201	General Physics I
PHY 202	General Physics II
PHY 213	General Physics w/Calculus I
PHY 214	General Physics w/Calculus II

Area IV: History, Social, and Behavioral Sciences **12**

History 3

HIS 101	History of Western Civilization I
HIS 102	History of Western Civilization II
HIS 201	United States History I
HIS 202	United States History II

Additional History, Social, and Behavioral Sciences 9

ANT 200	Introduction to Anthropology
ANT 210	Physical Anthropology
ANT 220	Cultural Anthropology
ANT226	Culture and Personality
ANT 230	Introduction to Archaeology
ECO 231	Macroeconomics
ECO 232	Microeconomics
GEO 100	World Regional Geography
IDH 206	Political. & Intellectual Forces in the 20th Century
POL 211	American National Government
PSY 200	General Psychology
PSY 210	Human Growth and Development
SOC 200	Introduction to Sociology
SOC 210	Social Problems
SPH 116	Introduction to Interpersonal Communication