COUNTY COLLEGE OF MORRIS
CURRICULUM CHECK SHEET **#2180**
Requirements for Graduation **ENGINEERING SCIENCE**
A. S. DEGREE

Name:_____
ID_____Total Transfer Credits_____
Date_____

FALL 2020

COURSE	CODE	CR	GR	TR
General Education Foundation (31 CR)				
COMMUNICATION (6 CR)				
English Composition I	ENG 111	3		
English Composition II	ENG 112	3		
MATH/SCIENCE/TECHNOLOGY (12 CR)				
Analytic Geometry & Calculus I*	MAT 131	4		
Analytic Geometry & Calculus II	MAT 132	4		
General Chemistry I – Lecture	CHM 125	3		
General Chemistry I – Lab	CHM 126	1		
SOCIAL SCIENCE (3 CR)				
Principles of Economics I	ECO 211	3		
HUMANITIES (3 CR)				
Choose from General Education course list (Humanities)		3		
HUMANITIES/SOCIAL SCIENCE (3 CR)				
Choose from General Education course list of Humanities or Social Science		3		
GENERAL EDUCATION (4 CR)				
General Chemistry II – Lecture	CHM 127	3		
General Chemistry II – Lab **OR**	CHM 128	1		
Engineering Physics III Lecture	PHY 232	3		
Engineering Physics III Lab	PHY 233	1		
ENGINEERING SCIENCE CORE (29 CR)				
Ordinary Differential Equations	MAT 244	4		
Calculus III	MAT 230	4		
Engineering Graphics	ENR 121	2		
Introduction to Engineering	ENR 130	1		
Engineering Mechanics I	ENR 223	3		
Engineering Mechanics II	ENR 224	3		
Restricted Engineering Elective**		3		
Engineering Physics I – Lecture	PHY 130	4		
Engineering Physics II – Lecture	PHY 133	4		
Engineering Physics II – Lab	PHY 134	1		
	TOTAL	60		

NOTES:

This is an unofficial document and should be used for academic planning purposes only. All students are required to see their Academic Advisors each semester to discuss and approve their selection of courses before they register.
Due to continual program revisions mandated by accrediting agencies and/or changes in state mandated requirements, students should consult their academic advisor when selecting courses.
If you need the name of your academic advisor, contact the Engineering Technologies/Engineering Science Department in Sheffield Hall SH 301, 973-328-5760.

To determine the transferability of your courses to participating NJ Colleges & Universities, access www.njtransfer.org.

*SPECIAL NOTE: The required Accuplacer College Level Math Test for new students may show the need to take MAT 123 Pre-Calculus (or lower level math class) rather than MAT 131 Analytic Geometry & Calculus I the first semester. Please see your Academic Advisor so an alternative plan of study may be established.

**MATH/ENGINEERING ELECTIVE: Please see your Academic Advisor to select the best courses to meet the elective category. These courses fulfill the engineering elective category of the program. Students interested in other courses that might also meet the engineering elective category, depending on their engineering Track, should see their Academic Advisor.

ENGINEERING SCIENCE
#2180
Suggested Sequence by Semester

This suggested sequence does not include any required developmental courses.
Degree completion time may vary depending upon the number of credits taken each semester.

SEMESTER I		**CREDITS**	**SEMESTER II**		**CREDITS**
English Composition I	ENG 111	3	English Composition II	ENG 112	3
General Chemistry I – Lecture	CHM 125	3	Analytic Geometry & Calculus II	MAT 132	4
General Chemistry I – Lab	CHM 126	1	Engineering Physics I	PHY 130	4
Analytic Geometry & Calculus I	MAT 131	4	Humanities/Social Science Elective		3
Introduction to Engineering	ENR 130	1	Restricted Engineering Elective		3
Engineering Graphics	ENR 121	2			
	TOTAL	14		**TOTAL**	17
SEMESTER III			**SEMESTER IV**		
Engineering Physics II – Lecture	PHY 133	4	Ordinary Differential Equations	MAT 244	4
Engineering Physics II – Lab	PHY 134	1	Engineering Mechanics II	ENR 224	3
Calculus III	MAT 230	4	Humanities Elective		3
Engineering Mechanics I	ENR 223	3	General Chemistry II – Lecture*	CHM 127	3
Principles of Economics I	ECO 211	3	General Chemistry II – Lab **OR**	CHM 128	1
			Engineering Physics III Lecture	PHY 232	
			Engineering Physics III Lab	PHY 233	
	TOTAL	15		**TOTAL**	14

HUMANITIES ELECTIVES: Please see the approved General Education course list under the Humanities section.

HUMANITIES/SOCIAL SCIENCE ELECTIVES: Please see the approved General Education course list under Humanities/Social Science sections.

HONORS COURSES: You may be eligible to take honors courses. For more information, contact Prof. Laura Gabrielsen at 973-328-5459.