

BS Mechanical Engineering

Suffolk Comm College	Vaughn College	Credits
<i>AS Engineering Science</i>		
<i>Course Number and Title</i>		
Major Courses		
DRF 114 AutoCad	CDE-117 Eng. Graphics CAD/Solid Edge	2
ENS 118 Engineering Mechanics	MEE-115 Engineering Mechanics 1	3
ENS 119 Engineering Mechanics-Dynamics	MEE215 Engineering Mechanics 2	3
ENS 233 Electrical Circuit Analysis	ELE-117 DC/AC Circuits	3
CHE 133 College Chemistry 1	CHE230 Chemistry	3
ENS117: Engineering Computations	CSC 316 C++/Java Prog	3
Math and Science		
MAT 141 Calc with Analytic Geometry 1	MAT-125 Calculus 1 for Engineers	3
PHY 130/132 Physics 1 + Lab	PHY-125 Engineering Physics 1	4
PHY 230/232 Physics 2 + Lab	PHY-225 Engineering Physics 2	4
PHY 245/246 Physics 3 + Lab	PHY 335 Modern Physics	3
MAT 142 Calc with Analytic Geometry 2	MAT-225 Calculus 2 for Engineers	3
MAT 203 Calc with Analytic Geometry 3	MAT-330 Calc 3	3
MAT 204 Differential Equations	MAT325 Engineering Mathematics	3
English and Social Sciences		
ENG 101 Freshmen Composition	ENG-110 English 1	3
ENG 102 Intro to Literature	ENG-120 English 2	3
<i>History Elective</i>	POL-254 American Government	3
<i>Social Science Elective</i>	HIS-141 Global Civilization	3
<i>American Lit*</i>	ENG-220 American Literature	3
	FYW 101 Freshman Year Initiative	3
	Total Credits	58

* Additional Course to be taken at Suffolk or Vaughn College prior to graduation.

Suggested sequence for Suffolk students after transferring to Vaughn College

SEMESTER V					
MCE 101 Intro to Robotics	1				
MEE440 Heat Transfer	3				
CDE385 Intro to CATIA 1	2				
MEE210 Thermodynamics	3				
MEE220 Mechanics of Materials	4				
MEE235 Materials Science and Failure Analysis	3				
CD 101 Career Development Seminar	0				
Technical Elective	3				
Semester total	19				
SEMESTER VI					
MEE340 Comp Methods with MathLab					3
MEE350 Mechanical Vibrations					3
MAT356 Probability and Statistics					3
MEE345 Fluid Mechanics					3
MEE365 Ele of Machine design and Vibration Anal					3
MEE230 Mechanical Testing and Eval Lab					1
ENG 290 Public Speaking					3
Semester total					19
SEMESTER VII					
SEMESTER VIII					
EGR460 Engineering Economics	3				3
MEE 370 Finite Element Analysis	3				3
EGR380 Engineering Project Management	3				3
Mat 410 Linear Algebra	3				3
Technical Elective	3				3
EGR375 Thermo Fluid Lab	1				2
CDE486 Catia 2	2				2
Semester total	18				19