

MANUFACTURING ENGINEERING MAJOR, BACHELOR OF SCIENCE (B.S.)

Freshman Year

1st Semester		Credit Hours
MATH 260	Calculus I	4
ENGL 110	Composition I	3
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		3
ENGR 101	Introduction to Engineering I	2
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		3
Credit Hours		15

2nd Semester

CHEM 151	General Chemistry I	3
CHEM 153	General Chemistry I Laboratory	1
MATH 261	Calculus II	4
ENGL 111	Composition II	3
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		2
ENGR 102	Introduction to Engineering II	2
ENGR 200	Engineering Graphics (with Lab)	3
Credit Hours		18

Sophomore Year

1st Semester

PHYS 112	General Physics I	4
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		3
ENGR 210	Statics & Strength Materials	3
MANE 205	Manufacturing Process I	3
Elective		3
Credit Hours		16

2nd Semester

PHYS 113	General Physics II (with Lab)	4
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		3
MATH 350	Differential Equations	3
MANE 210	Manufacturing Process II	3
ENGR 315	Dynamics	3
Credit Hours		16

Junior Year

1st Semester

MANE 310	Cad/Cam	3
ENGR 305	Materials Engineering	3
ENGR 203	Introduction to Programming	3
ENGR 301	Engineering Statistics	3
ENGR 201	Circuit Analysis	3
Credit Hours		15

2nd Semester

ENGR 313	Thermal Engineering	3
MATH 392	Introduction Linear Programmin	3
GE Mathematics Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gemathematicselectivestext)		3
ENGL 342	Technical Communication	3
MANE 315	Manufacturing Automation	3
Credit Hours		15

Senior Year

1st Semester

MANE 410	Prod Planning & Inventory Cont	3
MANE 461	Senior Project I	2
Restricted Elective		3
MANE 420	Simulation	3
ENGR 310	Engineering Economics	3
MANE 415	Project Engineering & Manageme	3
Credit Hours		17

2nd Semester

ENGR 430	Quality Engineering	3
MANE 462	Senior Project II	2
Restricted Elective		3
PHIL 275	Ethics	3
or PHIL 450 or Applied Ethics		
Restricted Elective		3
MANE 400	Senior Seminar	1
Credit Hours		15
Total Credit Hours		127

Earn at least a "C" or higher in major courses (ENGR, MANE and restricted electives), MATH 260 and MATH 261.

General Education Requirements for the B.S. Degree

Code	Title	Credit Hours
GE English Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geenglishselectivestext)		
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		
GE Humanities Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geselectivestext)		
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		
GE Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gescienceelectivestext)		
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		
GE Mathematics Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gemathematicselectivestext)		

Total Requirements Semester Hours: 33

A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement. A single course cannot be used to fulfill more than one general education requirement. Department or major/minor areas may opt to exceed the minimum credit hour requirements above.

Code	Title	Credit Hours
ENGR 101	Introduction to Engineering I	2
ENGR 102	Introduction to Engineering II	2
ENGR 200	Engineering Graphics	3

ENGR 201	Circuit Analysis	3
ENGR 203	Introduction to Programming	3
ENGR 210	Statics & Strength Materials	3
ENGR 301	Engineering Statistics	3
ENGR 305	Materials Engineering	3
ENGR 310	Engineering Economics	3
ENGR 313	Thermal Engineering	3
ENGR 315	Dynamics	3
ENGR 430	Quality Engineering	3
MANE 205	Manufacturing Process I	3
MANE 210	Manufacturing Process II	3
MANE 310	Cad/Cam	3
MANE 315	Manufacturing Automation	3
MANE 400	Senior Seminar	1
MANE 410	Prod Planning & Inventory Cont	3
MANE 415	Project Engineering & Manageme	3
MANE 420	Simulation	3
MANE 461	Senior Project I	2
MANE 462	Senior Project II	2
Total Credit Hours		60

Code	Title	Credit Hours
ENGL 342	Technical Communication	3
PHYS 113	General Physics II	4
CHEM 151	General Chemistry I	3
CHEM 153	General Chemistry I Laboratory	1
MATH 350	Differential Equations	3
MATH 392	Introduction Linear Programmin	3
Total Credit Hours		17

Code	Title	Credit Hours
Restricted Electives		12
Unrestricted Electives		3
Total Credit Hours		15

Code	Title	Credit Hours
General Education		35
Core Requirements		60
Major/Concentration Requirements		17
Electives		15
Total Credit Hours		127