

North Carolina State University

Materials Science and Engineering Curriculum (Effective 2015-01-01)

1 + 3 Program with UNC Asheville

FALL SEMESTER

SPRING SEMESTER

Freshman Year (UNC Asheville)

MATH 191	Calculus I	4	MATH 192	Calculus II	4
LANG 120	Academic Writing & Crit Inquiry	4	ECON 102	Prin of Microeconomics (GEP)	3
E 101	Intro to Engr & Prob Solv	1	CHEM 145	Quant Chemistry Lab	1
CHEM 111	General Chemistry Lab	1	CHEM 233	Fndns Inorganic Chemistry	3
CHEM 132	General Chemistry	3	PHYS 221	Physics I	<u>4</u>
XXX	GEP Course	<u>3</u>			<u>15</u>
		16			

Sophomore Year (NC State)

MA 242	Calculus III	4	MA 341	Appl Differential Equations I	3
PY 208	Physics for Engrs & Sci II	3	MSE 255	Exper Meth Str Analy Mat'l	2
PY 209	Physics for Engrs & Sci II Lab	1	MSE 260	Math Meth for Mat'l Engr	3
ST 370	Prob & Stats for Engineers	3	CH 220	Intro to Organic Chemistry	4
E 115	Intro to Computing Environ	1	MSE 270	Mat Sci Engr Seminar	1
MSE 201	Struc & Prop of Engr Matls	<u>3</u>	XXX	GEP Course	<u>3</u>
		15			16

Junior Year (NC State)

MSE 300	Struct Mat'ls at Nanoscale	3	MSE 355	Elec Magn Optic Prop Mat'ls	3
MSE 301	Intro to Thermo of Mat'ls	3	MSE 360	Kinetic Processes in Mat'ls	3
MSE 320	Intro Defects in Solids	3	MSE 370	Microstruct Inorganic Mat'ls	3
MSE 335	Exper Meth Analy Mat'l Prop	2	MSE 380	Microstruct Organic Mat's	3
XXX	GEP Course	3	XXX	Engineering Elective	3
XXX	GEP Course	<u>3</u>	HES XXX	Health Exercise Studies	<u>1</u>
		17			16

Senior Year (NC State)

MSE 420	Mech Prop Mat'ls	3	MSE 470	MSE Senior Design Project	3
MSE 423	Intro Material Engr Design	1	MSE 480	Materials Forensics & Degrad	3
XXX	MSE Processing Elective	3	XXX	Technical Elective	3
XXX	Technical Elective	3	XXX	Technical Elective	3
ENG XXX	Technical Writing Elective	3	XXX	GEP Course (IP: Ethics Elective)	3
XXX	GEP Course	<u>3</u>	HESF XXX	Health Exercise Studies	<u>1</u>
		16			16

Total hours shown: 127

Italics indicates the course is received from NC State by distance education technology (none).