

North Carolina State University

Biological Engineering Curriculum (Effective 01-01-2016)

1 + 3 Program with UNCA

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
XXX	GEP Course	3	CHEM 233	Fndns Inorganic Chemistry	3
CHEM 111	General Chemistry Lab	1	CHEM 145	Quant Chemistry Lab	1
CHEM 132	General Chemistry	3	PHYS 221	Physics I	4
E 101	Intro to Engr & Prob Solv	<u>1</u>	XXX	GEP Course	<u>3</u>
		16			18

Sophomore Year (NC State)

MA 242	Calculus III	4	MA 341	Appl Differential Equations I	3
PY 208	Physics for Engrs & Sci II	3	MAE 208	Engineering Dynamics	3
PY 209	Physics for Engrs & Sci II Lab	1	MAE 201	Engr Thermodynamics I	3
MAE 206a	Engineering Statics	3	BAE 200	Comp Methods in BE	2
E 115	Intro to Computing Environ	1	BAE 202b	Intro to BAE Methods	4
HES XXX	Health Exercise Studies	1	BIO 181c	Intro Biology: Eco Evo Biodiv	<u>4</u>
XXX	Engineering Elective	<u>3</u>			19
		16			

Junior Year (NC State)

XXX	GEP Course	3	BAE XXX	BAE Elective	3
BAE 302	Transport Phenomena	3	BAE XXX	BAE Elective	3
BAE ***	BAE Elective	3	BAE 305	Biol Engr Circuits	4
MAE 308d	Fluid Mechanics	3	MAE 214e	Solid Mechanics	3
XXX	Bio Science/Chem Elective	<u>3</u>	ST 370	Prob & Stat for Engrs	<u>3</u>
		15			16

Senior Year (NC State)

BAE 401	Instrumentation for Biol Sys	3	BAE 452	Engr Design II	3
BAE 451	Engr Design I	2	BAE XXX	Advanced BAE Elective	3
XXX	Engr Elective	3	XXX	GEP Course	3
XXX	GEP Course (IP: Ethics Elective)	3	XXX	GEP Course	3
	Adv Biology Elective	3	HESF XXX	Health Exercise Studies	<u>1</u>
ENG 331f	Commun for Engr & Tech	<u>3</u>			13
		17			

Total hours shown: 129

Italics indicates the course is received from NCSU by distance education (none).

a or CE 214(3) b or BAE 203 & 204 (2&2) c or BIO 183(4) d or CE 382(3)
 e or CE 313(3) f or ENG 333 (3)