

BS in Biological Systems Engineering/MBA Sample Study Plan (2017-2018 Catalog)
Biorenewable Resources Engineering Option

Degrees	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10
B.S. in BSE 128 credits (minimum)	Math 165 Calculus I 4 cr	Math 166 Calculus II 4 cr	Biol 212 Biology II 3 cr	Math 267 Diff. Equations 4 cr	ABE 316 Numer Methods 3 cr	ABE 380 Princ. of ABE 3 cr	Biorenewable Elective 3 cr	ABE 451 Bioprocessing 3 cr	ABE 415 ABE Design I 2 cr	ABE 416 ABE Design II 2 cr
	Chem 167 Chemistry I 4 cr	Phys 221 Physics I 5 cr	EM 274 Statics 3 cr	ABE 273 CAD 1 cr	ABE 325 Biorenew Syst 3 cr	ABE 363 Electric Power 4 cr	ABE 404 Instrumentation 3 cr	Communications Elective 3 cr	ABE 480 Eng Analysis 3 cr	ABE 469 Grain Process 3 cr
	Chem 167L Chemistry Lab 1 cr	ABE 160 Problem Solv. 3 cr	ABE 216 Fund. of ABE 3 cr	ME 231 Thermodynamics 3 cr	EM 378 Mechanics/Fluids 3 cr	EM 324 Materials 3 cr	ME 436 Heat Transfer 4 cr		EM 327 Mech of Mat 1 cr	
	Engl 150 Crit. Thinking 3 cr	ABE 110 Exper. ABE 1 cr	Chemistry Sequence I 4 cr	Chemistry Sequence II 4 cr	Micro 302 Microorganisms 3 cr	IE 305 Eng. Economics 3 cr			SSH Elective International 3 cr	
	ABE 170 Engr. Graphics 3 cr	Engl 250 WOVE Comp. 3 cr	SSH Elective Diversity 3 cr	ABE 218 Project Mgmt 2 cr	Micro 302L Lab 1 cr	SSH Elective Econ 101 3 cr				
	Lib 160 Info. Literacy 1 cr			ABE 201 Workplace Sem 1 cr	Stat 305 Engr. Statistics 3 cr					
	Engr 101 Engr. Orient. R cr									
MBA 48 credits (minimum)								Fin 501 Finance 3 cr	Mgmt 503 Bus. & Society 3 cr	MBA Elective 3 cr
							Acct 501 Accounting 3 cr	Mkt 501 Marketing 3 cr	Mgmt 504 Strategy 3 cr	MBA Elective 3 cr
							Econ 532 Economics 3 cr SSH Elective	SCM 501 Supply Chain 3 cr	MBA Elective 3 cr	MBA Elective 3 cr
							Mgmt 502 Org. Behavior 3 cr	MIS 501 MIS 3 cr		MBA Elective 3 cr
							BusAd 592 Prof Skills I R cr	BusAd 594 Prof Skills II R cr		
BSE 128 cr	16/16	16/32	16/48	15/63	16/79	16//95	13/108	6/114	9/123	5/128
MBA 49 cr							9/9	12/21	14/35	14/49
Shared 10 cr							(3/3)	(0/3)	(5/8)	(2/10)
167 Total Cr	16/16	16/32	16/48	15/63	16/79	16/95	19/114	18/132	18/150	17/167

- The ten shared credits include ECON 532 (SSH Elective) (3 cr), ABE 415/416 (4 cr), and ABE 480 (3 cr). ECON 101 is recommended as a SSH elective as a prerequisite to ECON 532 in the MBA.
- The quantitative business analysis course (BUSAD 502) in the MBA is waived if STAT 305 is completed satisfactorily (grade B or better).
- The fifteen credits of MBA electives in Semester 9 and Semester 10 must be 500 level courses from the College of Business.

BS in Biological Systems Engineering/MBA Sample Study Plan (2017-2018 Catalog)
Bioenvironmental Engineering Option

Degrees	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10
B.S. in BSE 127 credits (minimum)	Math 165 Calculus I 4 cr	Math 166 Calculus II 4 cr	Biol 212 Biology II 3 cr	Math 267 Diff. Equations 4 cr	ABE 316 Numer Methods 3 cr	ABE 380 Princ. of ABE 3 cr	ABE 431 Soil/Water Cons 3 cr	ABE 451 Bioprocessing 3 cr	ABE 415 ABE Design I 2 cr	ABE 416 ABE Design II 2 cr
	Chem 167 Chemistry I 4 cr	Phys 221 Physics I 5 cr	EM 274 Statics 3 cr	ABE 273 CAD 1 cr	EM 378 Mech of Fluids 3 cr	ABE 363 Electric Power 4 cr	ABE 404 Instrumentation 3 cr	Communications Elective 3 cr	ABE 480 Eng Analysis 3 cr	Bioenviron. Elective 3 cr
	Chem 167L Chemistry Lab 1 cr	ABE 160 Problem Solv. 3 cr	ABE 216 Fund. of ABE 3 cr	ME 231 Thermodynamics 3 cr	Micro 302 Microorganisms 3 cr	EM 324 Materials 3 cr	CE 326 Environ Engr. 3 cr		EM 327 Mech of Mat 1 cr	
	Engl 150 Crit.Thinking 3 cr	ABE 110 Exper. ABE 1 cr	Chemistry Sequence I 4 cr	Chemistry Sequence II 4 cr	Micro 302L Lab 1 cr	CE 372 Engr Hydrology 3 cr			SSH Elective International 3 cr	
	ABE 170 Engr. Graphics 3 cr	Engl 250 WOVE Comp. 3 cr	SSH Elective Diversity 3 cr	ABE 218 Project Mgmt 2 cr	Stat 305 Engr. Statistics 3 cr	IE 305 Eng. Economics 3 cr				
	Lib 160 Info. Literacy 1 cr			ABE 201 Workplace Sem. 1 cr	SSH Elective Econ 101 3 cr					
	Engr 101 Engr. Orient. R cr									
MBA 48 credits (minimum)								Fin 501 Finance 3 cr	Mgmt 503 Bus. & Society 3 cr	MBA Elective 3 cr
							Acct 501 Accounting 3 cr	Mkt 501 Marketing 3 cr	Mgmt 504 Strategy 3 cr	MBA Elective 3 cr
							Econ 532 Economics 3 cr SSH Elective	SCM 501 Supply Chain 3 cr	MBA Elective 3 cr	MBA Elective 3 cr
							Mgmt 502 Org. Behavior 3 cr	MIS 501 MIS 3 cr		MBA Elective 3 cr
							BusAd 592 Prof Skills I R cr	BusAd 594 Prof Skills II R cr		
BSE 127 cr	16/16	16/32	16/48	15/63	16/79	16//95	12/107	6/113	9/122	5/127
MBA 49 cr							9/9	12/21	14/35	14/49
Shared 10 cr							(3/3)	(0/3)	(5/8)	(2/10)
166 Total Cr	16/16	16/32	16/48	15/63	16/79	16/95	18/113	18/131	18/149	17/166

- The ten shared credits include ECON 532 (SSH Elective) (3 cr), ABE 415/416 (4 cr), and ABE 480 (3 cr). ECON 101 is recommended as a SSH elective as a prerequisite to ECON 532 in the MBA.
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BS in Biological Systems Engineering/MBA Sample Study Plan (2017-2018 Catalog)

Food Engineering Option

Degrees	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10
B.S. in BSE 128 credits (minimum)	Math 165 Calculus I 4 cr	Math 166 Calculus II 4 cr	Biol 212 Biology II 3 cr	Math 267 Diff. Equations 4 cr	ABE 316 Numer Methods 3 cr	ABE 380 Princ of ABE 3 cr	FSHN 420 Food Microbio. 3 cr	ABE 451 Bioprocessing 3 cr	ABE 415 ABE Design I 2 cr	ABE 416 ABE Design II 2 cr
	Chem 167 Chemistry I 4 cr	Phys 221 Physics I 5 cr	EM 274 Statics 3 cr	ABE 273 CAD 1 cr	EM 378 Mech of Fluids 3 cr	ABE 363 Electric Power 4 cr	ABE 404 Instrumentation 3 cr	Communications Elective 3 cr	EM 327 Materials Lab 1 cr	ME 436 Heat Transfer 4 cr
	Chem 167L Chemistry Lab 1 cr	ABE 160 Problem Solv. 3 cr	ABE 216 Fund. of ABE 3 cr	ME 231 Thermodynamics 3 cr	Micro 302 Microorganisms 3 cr	ABE 469 Grain Process 3 cr	ABE 480 Eng Analysis 3 cr		SSH Elective International 3 cr	
	Engl 150 Crit.Thinking 3 cr	ABE 110 Exper. ABE 1 cr	Chemistry Sequence I 4 cr	Chemistry Sequence II 4 cr	Micro 302L Lab 1 cr	EM 324 Materials 3 cr			Food Elective 3 cr	
	ABE 170 Engr. Graphics 3 cr	Engl 250 WOVE Comp. 3 cr	SSH Elective Diversity 3 cr	ABE 218 Project Mgmt 2 cr	Stat 305 Engr. Stat. 3 cr	IE 305 Eng. Economics 3 cr				
	Lib 160 Info. Literacy 1 cr			ABE 201 Workplace Sem. 1 cr	SSH Elective Econ 101 3 cr					
	Engr 101 Engr. Orient. R cr									
MBA 48 credits (minimum)								Fin 501 Finance 3 cr	Mgmt 503 Bus. & Soc. 3 cr	MBA Elective 3 cr
							Acct 501 Accounting 3 cr	Mkt 501 Marketing 3 cr	Mgmt 504 Strategy 3 cr	MBA Elective 3 cr
							Econ 532 Economics 3 cr SSH Elective	SCM 501 Supply Chain 3 cr	MBA Elective 3 cr	MBA Elective 3 cr
							Mgmt 502 Org. Behavior 3 cr	MIS 501 MIS 3 cr		MBA Elective 3 cr
							BusAd 592 Prof Skills I R cr	BusAd 594 Prof Skills II R cr		
BSE 128 cr	16/16	16/32	16/48	15/63	16/79	16//95	12/107	6/113	9/122	6/128
MBA 49 cr							12/12	12/24	11/35	14/49
Shared 10 cr							(6/6)	(0/6)	(2/8)	(2/10)
167 Total Cr	16/16	16/32	16/48	15/63	16/79	16/95	18/113	18/131	18/149	18/167

- The ten shared credits include ECON 532 (SSH Elective) (3 cr), ABE 415/416 (4 cr), and ABE 480 (3 cr). ECON 101 is recommended as a SSH elective as a prerequisite to ECON 532 in the MBA.
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BS in Biological Systems Engineering/MBA Sample Study Plan (2017-2018 Catalog)

Open Option

Degrees	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8	Semester 9	Semester 10
B.S. in BSE 128 credits (minimum)	Math 165 Calculus I 4 cr	Math 166 Calculus II 4 cr	Biol 212 Biology II 3 cr	Math 267 Diff. Equations 4 cr	ABE 316 Numer Methods 3 cr	ABE 380 Princ of ABE 3 cr	Sequence II Elective 3 cr	ABE 451 Bioprocessing 3 cr	ABE 415 ABE Design I 2 cr	ABE 416 ABE Design II 2 cr
	Chem 167 Chemistry I 4 cr	Phys 221 Physics I 5 cr	EM 274 Statics 3 cr	ABE 273 CAD 1 cr	EM 378 Mech of Fluids 3 cr	ABE 363 Electric Power 4 cr	ABE 404 Instrumentation 3 cr	Communications Elective 3 cr	ABE 480 Eng. Analysis 3 cr	Sequence III Elective 3 cr
	Chem 167L Chemistry Lab 1 cr	ABE 160 Problem Solv. 3 cr	ABE 216 Fund. of ABE 3 cr	ME 231 Thermodynamics 3 cr	Micro 302 Microorganisms 3 cr	EM 324 Materials 3 cr	ME 436 Heat Transfer 4 cr		EM 327 Materials Lab 1 cr	
	Engl 150 Crit.Thinking 3 cr	ABE 110 Exper. ABE 1 cr	Chemistry Sequence I 4 cr	Chemistry Sequence II 4 cr	Micro 302L Lab 1 cr	IE 305 Eng. Economics 3 cr			SSH Elective International 3 cr	
	ABE 170 Engr. Graphics 3 cr	Engl 250 WOVE Comp. 3 cr	SSH Elective Diversity 3 cr	ABE 218 Project Mgmt 2 cr	Stat 305 Eng. Stat. 3 cr	Sequence I Elective 3 cr				
	Lib 160 Info. Literacy 1 cr			ABE 201 Workplace Sem 1 cr	SSH Elective Econ 101 3 cr					
	Engr 101 Engr Orient. R cr									
MBA 48 credits (minimum)								Fin 501 Finance 3 cr	Mgmt 503 Bus. & Soc. 3 cr	MBA Elective 3 cr
							Acct 501 Accounting 3 cr	Mkt 501 Marketing 3 cr	Mgmt 504 Strategy 3 cr	MBA Elective 3 cr
							Econ 532 Economics 3 cr SSH Elective	SCM 501 Supply Chain 3 cr	MBA Elective 3 cr	MBA Elective 3 cr
							Mgmt 502 Org. Behavior 3 cr	MIS 501 MIS 3 cr		MBA Elective 3 cr
							BusAd 592 Prof Skills I R cr	BusAd 594 Prof Skills II R cr		
BSE 128 cr	16/16	16/32	16/48	15/63	16/79	16//95	13/108	6/114	9/123	5/128
MBA 49 cr							9/9	12/21	14/35	14/49
Shared 10 cr							(3/3)	(0/3)	(5/8)	(2/10)
167 Total Cr	16/16	16/32	16/48	15/63	16/79	16/95	19/114	18/132	18/150	17/167

- The ten shared credits are ECON 532 (SSH Elective) (3 cr), ABE 415/416 (4 cr), and ABE 480 (3 cr). ECON 101 is recommended as a SSH elective as a prerequisite to ECON 532 in the MBA.
- The quantitative business analysis course (BUSAD 502) in the MBA is waived if STAT 305 is completed satisfactorily (grade B or better).
- The fifteen credits of MBA electives in Semester 9 and Semester 10 must be 500 level courses from the College of Business.