

**Memorandum of Understanding
Establishing an AS to BS in Progression Program Between**

BATON ROUGE COMMUNITY COLLEGE
Associate of Science in Pre-Engineering

AND

LOUISIANA STATE UNIVERSITY
Bachelor of Science in a College of Engineering Discipline

ENGLISH (6 credit hours):

BRCC COURSE	LSU COURSE
ENGL 1013 (101)	ENGL 1001
ENGL 1023 (102)	ENGL 2000

MATHEMATICS (10 credit hours):

BRCC COURSE	LSU COURSE
MATH 2115 (210) (5)	MATH 1550
MATH 2125 (211) (5)	MATH 1552

APPROVED NATURAL SCIENCE (9 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1123 (101) (3)	CHEM 1201
PHYS 2133 (221) (3)	PHYS 2110
PHYS 2153 (223) (3)	PHYS 2113

SOCIAL SCIENCES (6 credit hours):

BRCC COURSE	LSU COURSE
ECON 2113 (203)	ECON 2030
GenEd Social Science	

OR

ECON 2213 (201)	ECON 2010
ECON 2223 (202)	ECON 2000

ARTS (3 credit hours):

BRCC COURSES	LSU COURSE
GenEd Arts	

HUMANITIES (9 credit hours): Pick any 3 courses

BRCC COURSE	LSU COURSE
GenEd Humanities	
GenEd Humanities	
GenEd Humanities	

BIOLOGICAL ENGINEERING:

ENGINEERING ELECTIVES: (3 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450

APPROVED ELECTIVES (17 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
BIOL 1033 (120) (3)	BIOL 1201
BIOL 1031 (120L) (1)	BIOL 1208
BIOL 1043 (121) (3)	BIOL 1202
BIOL 1041 (121L) (1)	BIOL 1209
BIOL 2124 (250) (3)	BIOL 2051

CIVIL ENGINEERING:

ENGINEERING ELECTIVES: (5 credit hours)

BRCC COURSE	LSU COURSE
ENGR 1032 (102) (2)	CE 1030
ENGR 2453 (245) (3)	CE 2450

APPROVED ELECTIVES (14 or 15 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1133 (102) (3)	CHEM 1202
PHYS 2111 (210L) (1)	PHYS 2108
PHYS 2153 (223) (3)	PHYS 2113
MATH 2134 (212) (4)	MATH 2057
GEOL 1103 (101) (3)	GEOL 1001

OR

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
PHYS 2153 (223) (3)	PHYS 2113
MATH 2134 (212) (4)	MATH 2057
GEOL 1103 (101) (3)	GEOL 1001

CHEMICAL ENGINEERING:

ENGINEERING ELECTIVES: (3 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450

APPROVED ELECTIVES (16 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
CHEM 2213 (220) (3)	CHEM 2261
CHEM 2211 (220L) (1)	CHEM 2364
CHEM 2223 (221) (3)	CHEM 2262
CHEM 2221 (221L) (1)	CHEM 2364
PHYS 2153 (223) (3)	PHYS 2113

ELECTRICAL AND COMPUTER ENGINEERING:

ENGINEERING ELECTIVES: (3 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450

APPROVED ELECTIVES (16 credit hours):

BRCC COURSE	LSU COURSE
PHYS 2111 (210L) (1)	PHYS 2108
PHYS 2153 (223) (3)	PHYS 2113
PHIL 2013 (205) (3)	PHIL 2020
MATH 2134 (212) (3)	MATH 2057
BIOL 1013 (101) (3)	BIOL 1001

ENVIRONMENTAL ENGINEERING:

ENGINEERING ELECTIVES: (3 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450

APPROVED ELECTIVES (15 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
PHYS 2153 (223) (3)	PHYS 2113
GEOL 1103 (101) (3)	GEOL 1001
BIOL 1033 (120) (3)	BIOL 1201
BIOL 1031 (120L) (1)	BIOL 1208

INDUSTRIAL ENGINEERING:

ENGINEERING ELECTIVES: (8 credit hours)

BRCC COURSE	LSU COURSE
ENGR 1032 (103) (2)	CM 1030
ENGR 2453 (245) (3)	CE 2450
ENGR 2953 (295) (3)	EE 2950

APPROVED ELECTIVES (11 credit hours):

BRCC COURSE	LSU COURSE
PHYS 2111 (210L) (1)	PHYS 2108
PHYS 2153 (223) (3)	PHYS 2113
PHYS 2121 (211L) (1)	PHYS 2109
CHEM 1133 (102) (3)	CHEM 1202
BIOL 1013 (101) (3)	BIOL 1001

MECHANICAL ENGINEERING:

ENGINEERING ELECTIVES: (6 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450
ENGR 2953 (295) (3)	EE 2950

APPROVED ELECTIVES (14 or 15 credit hours):

BRCC COURSE	LSU COURSE
PHYS 2111 (210L) (1)	PHYS 2108
PHYS 2153 (223) (3)	PHYS 2113
MATH 2134 (212) (4)	MATH 2057
CHEM 1133 (102) (3)	CHEM 1202
BIOL 1013 (101) (3)	BIOL 1001

OR

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
PHYS 2153 (223) (3)	PHYS 2113
MATH 2134 (212) (4)	MATH 2057
BIOL 1013 (101) (3)	BIOL 1001

PETROLEUM ENGINEERING:

ENGINEERING ELECTIVES: (6 credit hours)

BRCC COURSE	LSU COURSE
ENGR 2453 (245) (3)	CE 2450
ENGR 2953 (295) (3)	EE 2950

APPROVED ELECTIVES (11 credit hours):

BRCC COURSE	LSU COURSE
CHEM 1121 (101L) (1)	CHEM 1212
CHEM 1133 (102) (3)	CHEM 1202
CHEM 1131 (102L) (1)	CHEM 1212
PHYS 2153 (223) (3)	PHYS 2113
GEOL 1103 (101) (3)	GEOL 1001