

# MEMORANDUM OF UNDERSTANDING

BETWEEN

**LOUISIANA STATE UNIVERSITY AND A&M COLLEGE**

AND

**BOSSIER PARISH COMMUNITY COLLEGE**

The Louisiana State University and A&M College (LSU) and Bossier Parish Community College (BPCC) have agreed to enter into an Articulation Agreement Memorandum of Understanding between the two institutions dealing with the topic of Engineering.

This agreement will allow students to complete the Associate of Science in **Engineering** at BPCC and transfer all credit hours applied as listed in Appendix A to LSU in partial fulfillment of degree requirements for the Bachelor of Science in **Biological Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Environmental Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering or Petroleum Engineering** Degrees in the LSU College of Engineering.

This partnership is mutually beneficial to both institutions for several reasons. This arrangement will benefit the BPCC students, traditional and nontraditional, by offering them an opportunity to continue their education after completing the AS degree in Engineering at BPCC with a university that will accept those credits. The arrangement is beneficial to LSU because it provides another opportunity for LSU to attract and retain Engineering students with a proven record of academic success.

Both higher education institutions have full-time, tenure-track faculty with advanced academic and field experience credentials.

Both institutions have extensive support resources (i.e., library, on-line access, service courses, and adequate administrative – faculty – staff backup).

In accordance with this Memorandum of Understanding, BPCC agrees to:

1. Have BPCC students who plan to transfer to LSU to complete a Bachelor's Degree in Engineering apply to LSU.
2. Jointly with LSU market these Articulation Agreements to prospective students.
3. Provide information about these Articulation Agreements on the BPCC Website beginning immediately.
4. Provide information about these Articulation Agreements in the BPCC catalog beginning in 2015-2016.
5. Provide students the opportunity to obtain the BPCC credit hours as listed in Appendices 1 and 2 of this Memorandum of Understanding between LSU and BPCC.

**Appendix A – Articulation Matrix**  
**Pre-Engineering Program between BPCC and LSU**

Description	BPCC Course	Cr.	LSU Course	Cr.
<b>General Education Courses</b>				
English Composition (6 credit hours)	ENGL 101	3	ENGL 1001	3
	ENGL 102	3	ENGL 2000	3
Mathematics:				
Calculus block transfer (12 credit hours)	MATH 250 (3) MATH 251 (3) MATH 252 (3) MATH 253 (3)	12	MATH 1550 (5) MATH 1552 (4)  MATH 2057 (3) *	12
Differential Equation (3 credit hours)	MATH 254 (3)	3	MATH 2065 (3)#	3
Social Science (6 credit hours)	BADM 201	3	ECON 2010	3
	BADM 202	3	ECON 2000	3
Natural Science (12 credit hours)	BLGY 105 or BLGY 101^	3	BIOL 1001 or 1201	3
	CHEM 101	3	CHEM 1201	3
	PHYS 211	3	PHYS 2110	3
	PHYS 212	3	PHYS 2112 or PHYS 2113**	3
Humanities (9 credit hours)	Lit. Elect.	3	Lit. Elect.	3
	Hist. Elect.	3	Hist. Elect.	3
	SPCH 110	3	CMST2060	3
Fine Arts (3 credit hours)	Art. Elect.	3	Art. Elect.	3
<b>Pre-Engineering Courses</b>				
Engineering Science courses	ENGR Electives***	4-15	ENGR Electives***	4-15
<b>Total</b>		<b>55-66<sup>&amp;</sup></b>		<b>55-66</b>

\*MATH 2057 is not needed for Biological Engineering, Chemical Engineering, Environmental Engineering, Industrial Engineering, or Petroleum Engineering, but required for Civil Engineering, Electrical Engineering, Computer Engineering and Mechanical Engineering.

#MATH 2065 is the Differential Equation course required for Biological Engineering, Civil Engineering, Environmental Engineering, and Petroleum Engineering. For majors including Chemical Engineering, Mechanical Engineering, Industrial Engineering, Electrical Engineering and Computer Engineering, a different 4-credit Differential Equation is needed at LSU.

\*\* For Chemical Engineering, Biological Engineering, Electrical Engineering, Computer Engineering, and Mechanical Engineering, Petroleum Engineering.

^: BLGY 101- science major Biology is needed for Biological Engineering, Chemical Engineering and Environmental Engineering. BLGY 105 will work for other remaining engineering majors at LSU.