APPENDIX A

Angelina College courses accepted by San Juan College for Associate of Applied Science in Petroleum Production Operations:

ANGELINA COLLEGE	SAN JUAN COLLEGE
General Education: 15-16 Credits ENGL 1301 Composition I 3 credits OR ENGL 2311 Technical Writing 3 credits	**General Education: 15-16 Credits** ENGL-111 Freshman Composition 3 credits OR ENGL-118 Technical Composition 3 credits
AND	AND
ENGL 1302 Composition II 3 credits OR SPCH 1315 Public Speaking 3 credits OR SPCH 1321 Business & Prof. Speech 3 credits OR SPCH 1318 Interpersonal Communications 3 credits	ENGL-211 Advanced Composition 3 credits OR ENGL-218 Advanced Technical Composition 3 credits OR COMM-110 Public Speaking 3 credits OR COMM-120 Bus & Prof Communication 3 credits OR COMM-111 Interpersonal Communication 3 credits
AND	AND
TECM 1301Industrial Math 3 credits OR MATH 1324 Math for Business and Soc Sci 3 credits OR MATH 1332 Contemporary Math 3 credits OR MATH 1314 College Algebra 3 credits	MATH-113 Math for Technical Careers 4 credits OR MATH-115 Intermediate Algebra-Applications 4 credits[1] OR MATH-130 Conceptual Mathematics 3 credits OR MATH-160 College Algebra 3 credits
AND	AND
Humanities/Fine Arts & Social/Behavioral Sciences 3 credits	Humanities/Fine Arts & Social/Behavioral Sciences 3 credits
AND	AND
ITSC 1301 Introduction to Computers 3 credits	COSC-137 Energy Industry Microcomputer 3 cr. OR COSC-125 Business Microcomputer Applications 3 credits
Energy Core Requirements: Course not currently in our current inventory: PTAC 1302 Process Technology 3 credits PTAC 1332 Introduction to Instrumentation Technology 3 credits Course in our inventory: ELPT 1321 Intro to electrical safety and tools	**Energy Core Requirements: 15 Credits** Select 5 courses or 15 credits: ENGY-110 Process Technology 3 credits ENGY-120 Introduction to Instrumentation Technology 3 credits ENGY-125 Introduction to Oil and Gas Industry 3 credits ENGY-126 Introduction to Natural Gas Compression 3 credits ENGY-130 Safety, Health & Environmental Concepts 3 credits ENGY-133 Process Technology I-Equipment 3 credits
Technical Requirements: Proposals: currently in the electromechanical technology fluid power specialty program HYDR 1350 Hydraulics, fabrication and repairs 3 credits HYDR 1409 Basic Fluid Power I (hydraulics) 4 credits HYDR 1415 Basic Fluid Power II (pneumatics) 4 credits HYDR 2330 Fluid Power System Design 3 credits HYDR 2455 Hydraulic Proportional & Servo 4 credits	**Technical Requirements: 30 credits** LSOP-111 Production Field Tech 2 credits LSOP-115 Wellhead Design & Surface Equipment 3 credits COMP-113 Natural Gas Engine Theory 3 credits COMP-147 Introduction to Natural Gas Engine & Com 2 credits SAFE-251 Hazard Communication & Right-To-Know 1 credits SAFE-257 Emergency Preparedness 1 credits SAFE-260 Personal Protective Equipment 1 credits

GEOL 1401 Physical Geology 4 credits	LSOP-208 Basic Oil & Gas Measurement 3 credits LSOP-227 Intro to Wireline, Swabbing, Beam Lift 3 credits LSOP-231 Intro to Plunger Lift and Production Rates 4 credits LSOP-226 Advanced Separator Valve Training II 1 credits ENER-133 Compressor Valves 0.5 credits ENER-138 Rotary Compressor Concepts 0.5 credits ENER-250 Energy Industry Economics 0.5 credits ENER-251 Production Chemicals 0.5 credits GEOL-110 Introduction to Geology 4 credits OR GEOL-120 Introduction to Petroleum Geology 4 credits
	[1]Only MATH 115 satisfies the pre-requisite for MATH 160.

The highlighted courses listed above are being submitted for your consideration as possible substitute courses for applicable courses in the Associate of Applied Science in Petroleum Production at San Juan College. The two process technology courses (PTAC) are not currently in our inventory, but we can petition the state to add them to our inventory. The HYDR courses are currently in our Electromechanical Technology-Fluid Power Specialty AAS and could serve as technical requirements, should both parties believe them to be appropriate.