

Memorandum of Understanding

**NORTHWESTERN STATE UNIVERSITY
and
BOSSIER PARISH COMMUNITY COLLEGE**

INTENT

This Memorandum of Understanding between Bossier Parish Community College and Northwestern State University is intended to provide expanded education opportunities for seamless transfer of students between BPCCC and NSU. The goal of this Memorandum of Understanding is to reduce duplication of instruction, reduce student time, and minimize student financial obligations.

AGREEMENT

The following associate and baccalaureate curricular areas are covered by this MOU. These degrees will be part of a 2+2 agreement:

BPCCC (associate)

NSU (baccalaureate)

Industrial Technology with the following concentrations:

Electronic Engineering Technology

Electronics Engineering Technology (Upper Division)

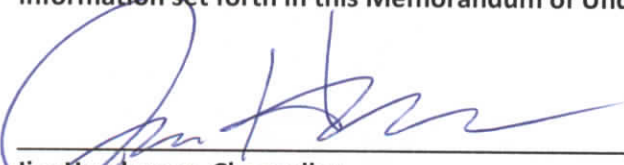
Oil and Gas Process Control Technology

Industrial Engineering Technology (Upper Division Oil and Gas)

Engineering Graphics Technology

Industrial Engineering Technology (Upper Division Graphics)

The signature of each representative indicates that the institution acknowledges and agrees with the information set forth in this Memorandum of Understanding.



Jim Henderson, Chancellor
Bossier Parish Community College

1/24/11

Date



Randall J. Webb, President
Northwestern State University

24 January 2011

Date

FRESHMAN YEAR

First Semester		Hours
MATH 102:	College Algebra	3
PHSC 111:	Physical Geology	3
TEED 101:	Basic Electricity	3
TEED 101L:	Basic Electricity Lab	1
ISAF 109:	Basic Field Safety Orientation (Safe Land Certification)	2
OGPT 101:	Introduction to the Exploration and Production of Oil and Gas	3
		15

Second Semester		Hours
OGPT 103:	Drilling Complex Wells	3
OGPT 131:	Well Completions and Workovers	3
OGPT 150:	Regulatory Issues for the Oil and Gas Industry	2
ENGL 101:	Composition and Rhetoric I	3
TEED 153:	Hydraulics/Fluid Dynamics with Lab	3
		14

Third Semester		Hours
OGPT 260:	Computer Applications for Oil and Gas Industry	
<i>or</i> OGPT 270:	Cooperative Education (16 weeks)	3
<i>or</i> OGPT 280:	Internship - Oil and Gas Technology/Technician (8 weeks)	

SOPHOMORE YEAR

First Semester		Hours
OGPT 203:	Oil and Gas Instrumentation and Lab	4
TEED 245:	Pumps and Compressors with Lab	2
SPCH 115:	Interpersonal Communication	3
OGPT 207:	Production and Recovery I	3
	Humanities Elective	3
		15

Second Semester		Hours
ISAF 209:	Safety Regulations and Hazwoper 40 Safety Certification	3
OGPT 217:	Production and Recovery II	3
OGPT 221:	Natural Gas Processing and Lab	4

BADM 217 :	Organizational Behavior	3
POSC 202:	State and Local Government	3
		16
Total credit hours		63

DEGREE PROGRESS SHEET
INDUSTRIAL ENGINEERING TECHNOLOGY PROPOSED UPPER DIVISION OIL & GAS (145)
 Catalog 2011-2012

NAME _____ CUID# _____ ADVISOR _____ CATALOG 103

ADDRESS _____ PHONE _____

UNIVERSITY CORE (BOR):	Hrs	Grade	QP	Notes	MAJOR REQUIREMENTS:	Hrs	Grade	QP	Notes
ENGLISH (3)	3				- EET 4940	2			
- ENGL 1020									
MATHEMATICS (9)	6				- IET 2740	3			
- MATH 2020					- IET 2400	3			
- MATH 2050					- IET 2790	3			
NATURAL SCIENCE (3)	3				- IET 3510	3			
- SCI 1020					- IET 3570	3			
HUMANITIES ¹ (6)	3				- IET 4700	3			
- ENGL 3230					- IET 4720	3			
- ENGL 2110					- IET 4730	3			
FINE ARTS (3)	3				- IET 4750	3			
- FA 1040					- IET 4960	2			
SOCIAL/BEHAV SCI ¹ (3)	3								
- ECON 2000									
Core Hours Subtotal	27				ELECTIVES ² (6 Hrs):				
Student takes					-				
History as elective					-				
for Humanities									
elective for BPCC					Major Hours Subtotal	37			
Student takes Math 112									
and Phys 201									

¹ Must meet University core requirements
² Electives may be selected from any Industrial Engineering Technology or Electronics Engineering Technology courses. Electives may include a maximum of three hours of occupational field experience.

TOTAL HOURS FOR DEGREE - 64

**Associate of Applied Science in Industrial Technology
Concentration in Engineering Graphics Technology**

Freshman Year

First Semester	Hours
TEED 101 Basic Electricity	3
TEED 101L Basic Electricity Lab	1
TEED 140 Engineering Graphics	3
TEED 143 Introductory Computer Drafting	3
MATH 102 College Algebra	3
ENGL 101 Composition & Rhetoric I	<u>3</u>
	16
Second Semester	Hours
TEED 102 Semiconductor Electronics	3
TEED 102L Semiconductor Electronics Lab	1
TEED 142 Industrial Blueprint Reading	3
TEED 144 Intermediate Computer Drafting	3
MATH 129 Applied Technical Math or	
MATH 112 Trigonometry	3
Social Science elective	<u>3</u>
	16
Third Semester	
TEED 201 Basic Digital Electronics	<u>3</u>
	3

Sophomore Year

First Semester	Hours
TEED 171 Building Information Modeling I	3
PHSC 105 Elemental Physics or	
PHYS 201 General Physics	3
SPCH 110 Principles of Speech	3
TEED 156 Customizing AutoCAD	3
TEED 158 Computer Drafting Applications	<u>3</u>
	15
Second Semester	Hours
TEED 208 Programmable Logic Controllers (PLCs)	3
TEED 208L Programmable Logic Controllers (PLCs) Lab	1
TEED 172 Building Information Modeling II	3
TEED 160 3D Computer Drafting	3
Humanities elective	<u>3</u>
	13

TOTAL HOURS: **63**

Students must demonstrate competency in computer literacy by successfully completing a challenge examination or through successful completion of a college level computer science course (CIS 105).

42 hours are similar in all concentrations.

**Associate of Applied Science in Industrial Technology
Concentration in Electronics Engineering Technology**

Freshman Year

First Semester	Hours
TEED101 Basic Electricity	3
TEED 101L Basic Electricity Lab	1
MATH 102 College Algebra	3
ENGL 101 Composition & Rhetoric I	3
Social Science Elective	<u>3</u>
	13

Second Semester	Hours
TEED 102 Semiconductors Electronics	3
TEED 102L Semiconductors Electronics Lab	1
TEED 142 Industrial Blueprint Reading	3
TEED 143 Introductory Computer Drafting	3
SPCH 110 Principles of Speech	3
MATH 129 Applied Technical Math, or	
MATH 112 Trigonometry	<u>3</u>
	16

Third Semester	Hours
TEED 201 Digital Electronics	3
TEED 206 Electric Equipment & Repair	<u>3</u>
	6

Sophomore Year

Third Semester	Hours
TEED 132 National Electric Code I	3
TEED 150 Pneumatics	3
TEED 202 Introduction to Microprocessors	3
TEED 202L Introduction to Microprocessors Lab	1
PHSC 105 Elemental Physics or	
PHYS 201 General Physics	3
PHSC 105L Elemental Physics Lab or	
PHYS 201L General Physics Lab	<u>1</u>
	14

Fourth Semester	Hours
TEED 204 Industrial Instruments	3
TEED 208 Programmable Logic Controllers	3
TEED 208L Programmable Logic Controllers Lab	1
TEED 252 Electric Motor Controls	3
TEED 252L Electric Motor Controls Lab	1
Humanities Elective	<u>3</u>
	14

TOTAL HOURS: **63**

Students must demonstrate competency in computer literacy by successfully completing a challenge examination or through successful completion of a college level computer science course (CIS 105).

42 hours are similar in all concentrations.

DEGREE PROGRESS SHEET
INDUSTRIAL ENGINEERING TECHNOLOGY PROPOSED UPPER DIVISION GRAPHICS (145)
 Catalog 2011-2012

NAME _____ CWID# _____ ADVISOR _____ CATALOG 103

ADDRESS _____ PHONE _____

UNIVERSITY CORE (CoR):	Hrs	Grade	QP	Notes	MAJOR REQUIREMENTS:	Hrs	Grade	QP	Notes
ENGLISH (3)	3				- EET 4940	2			
- ENGL 1020									
MATHEMATICS (9)	6				- IET 1800	3			
- MATH 2020					- IET 2740	3			
- MATH 2050					- IET 2790	3			
NATURAL SCIENCE (3)	3				- IET 3150	3			
- SCI 1020					- IET 3510	3			
HUMANITIES ¹ (6)	3				- IET 3550	3			
- ENGL 3230					- IET 3570	3			
- ENGL 2110					- IET 4700	3			
FINE ARTS (3)	3				- IET 4720	3			
- FA 1040					- IET 4730	3			
SOCIAL/BEHAV SCI ¹ (3)	3				- IET 4750	3			
- ECON 2000					- IET 4960	2			
Core Hours Subtotal	27								
Student takes History as elective for Humanities elective for BPCC					Major Hours Subtotal	37			
Student takes Math 112 and Phys 201									

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