



LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

*Changing Lives,
Creating Futures*

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Louisiana
Community
& Technical
College System

265 South Foster Drive
Baton Rouge, LA 70806

Phone: 225-922-2800
Fax: 225-922-1185

www.lctcs.edu

TO: Dr. Monty Sullivan
LCTCS President

THROUGH: Dr. René Cintrón
Chief Education and Training Officer

FROM: Dr. Adrienne Fontenot *AR*
Director of Adult Learning and Educational Programs

SUBJECT: Program Requests at Central Louisiana Technical Community College

DATE: 01/27/20

FOR BOARD ACTION:

Recommendation: Staff recommends the Board approve the following program requests listed below.

Program Additions

1. Associate of Science (AS), Business Administration (CIP 52.0101) – 5 STARS
2. Associate of Applied Science (AAS), Practical Nursing (CIP 51.3901) – 4 STARS
3. Certificate of Technical Studies (CTS), Industrial Manufacturing (CIP 15.0613) – 5 STARS
 - a. Career and Technical Certificate (CTC), Manufacturing Fundamentals (CIP 15.0613) with an Industry Based Certification in Certified Production Technician (CPT) from the Manufacturing Skill Standards Council (MSSC)- 5 STARS

Program Modifications

4. Technical Diploma (TD), Machine Tool Technology Concentration to Machinist Technology Concentration (CIP 15.0613) – 5 STARS
 - a. Certificate of Technical Studies (CTS), CNC Operator to Basic Machine Tool Technology (CIP 15.0613) – 5 STARS

Program Terminations

5. Certificate of Technical Studies (CTS), Certification for Manufacturing (C4M), (CIP 15.0613) – 5 STARS

Background: Central Louisiana Technical Community College (CLTCC) is requesting to add an Associate of Science (AS) in Business Administration. CLTCC is working on transfer agreements with LSU-Alexandria and Northwestern State University. Additional full-time and adjunct instructors will be hired to support this addition.

Central Louisiana Technical Community College (CLTCC) is requesting to add an Associate of Applied Science (AAS) in Practical Nursing to the program that already includes a Technical Diploma in Practical Nursing and a Career and Technical Certificate in Nursing Assistant. This program was developed to support a transfer agreement with LSU-Alexandria.

Central Louisiana Technical Community College (CLTCC) is requesting to make several changes to their Industrial Manufacturing program at the recommendation of the advisory committee, including the following: addition of two new certificates; renaming of a concentration; renaming of a certificate; and deletion of one certificate. The manufacturing program is expanding to involve work-based options for students enrolled in school. A 2+2

Received
APPROVED
slk 2/12/20
LCTCS BOARD OF SUPERVISORS

agreement with Northwestern State University is in place as well for these students. These changes will ensure that the program is consistent with industry standards.

Fiscal Impact: The administrative structure and allocation of departmental funds will be unchanged, unless otherwise noted.

History of Prior Actions: There is a history of making programmatic changes to meet student and workforce needs.

Benefits to the System: The changes will ensure curriculum is aligned to industry needs and better able to prepare students for successful entry into the workforce.



Approved for Recommendation to the Board
Dr. Monty Sullivan

2-12-20

Date

Associate of Applied Science in Practical Nursing - 11/19/2019

TYPE OF PROPOSED CHANGE : New Program
PROGRAM NAME : Associate of Applied Science in Practical Nursing

AWARD LEVEL(S)	
For Board of Regents and LCTCS Review: Associate of Applied Science (A.A.S.) Name:	For LCTCS Review: Technical Diploma (T.D.) Certificate of Technical Studies (C.T.S.) Career and Technical Certificate (C.T.C.) TCA - For Archive Purpose Only

NAME OF PROGRAM(S) and AWARD LEVEL(S)			
Stars : 4 Stars			
Name: Associate of Applied Science in Practical Nursing		Program Delivery Mode: Hybrid	
CIP: 51.3901	Credit Hours: 73.00	Contact Hours: 1960.00	Associate of Applied Science (A.A.S.)

PROPOSED CHANGE a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.
<p>The Associate in Applied Science degree in Practical Nursing is for students who are interested in pursuing a career in nursing. The curriculum prepares students to meet the licensure requirements for a Licensed Practical Nurse (LPN), as established by the Louisiana State Board of Practical Nurse Examiners. Graduates of this program work in many settings, including nursing homes and extended care facilities, hospitals, physicians' offices, and home health care. Graduates of the program will also be better prepared to transfer to an associate or bachelor's RN program.</p>

IMPLEMENTATION DATE (Semester and Year)	Summer 2020
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HISTORY OF PRIOR ACTIONS Provide an overview of changes to this program.
<p>The exit points within the AAS, the Technical Diploma in Practical Nursing and the CTC in Nursing Assistant, are programs that have been previously approved by the board.</p>

JUSTIFICATION FOR THE PROPOSED CHANGE

Include support such as four-year university agreements, industry demand, advisory board information, etc.

This program was developed to support a transfer agreement being developed with Louisiana State University of Alexandria's nursing department. Students in the program will take courses that directly transfer to an associate or bachelor's RN program. Additional agreements will be developed with other four-year universities.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: All Campuses

QUALIFIED FACULTY (Check all that apply)

Use Existing Faculty: Yes

- Full Time: 28

- Part Time: 0

Hire Adjunct Faculty: No

- 0

Hire Full-Time Faculty: No

- 0

ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :

Facilities :

Library Resources :

Support :

Related Fields :

Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY

Education: Associates Degree

Experience: 3 years

Certification: Louisiana RN

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department : Allied Health

Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.

There are no implementation costs. All nursing courses are currently offered in the TD program and general education courses are already offered.

ANTICIPATED ENROLLMENT:

Students

Year One

Year Two

Year Three

Year Four

Year Five

DAY	30	35	40	40	40
EVENING					
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	Estimated enrollment is based on interest expressed by students in the current TD program.				

PROGRAM ACCREDITATION:	
Is Program Accreditation, Licensure or Certification Required?	Mandatory Accreditation status: Approved
Type/Name of Program Accreditation, Licensure or Certification Required:	Mandatory - Louisiana State Board of Practical Nurse Examiners (LSBNE) for TD - Approved Optional - National League for Nursing Accrediting Commission (NLNAC-ACEN) - N/A

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

PROGRAM CURRICULUM Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.							
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration:					Credit Hours: 0.00		

BENEFITS TO THE SYSTEM
Discuss how this change will benefit your students, your community, and the LCTCS.
This program will assist students who wish to continue their education at a 4-year institution

KEYWORDS



PRACTICAL NURSING (51.3901)

DIVISION: Academics & Health Programs

DEPARTMENT: Allied Health

DIPLOMA/CERTIFICATE OPTIONS

- CTC – NURSE ASSISTANT
- TD – PRACTICAL NURSING
- AAS – PRACTICAL NURSING

CURRICULUM

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
HNUR 1000	Orientation for PN/AH	1	0	1	15
HNUR 1211	Nursing Fundamentals I	3	1	4	75
HNUR 1212	Geriatric Clinical I	0	1	1	45
	<i>CTC– Nurse Assistant</i>			6	135
CPTR 1000	Introduction to Computer	2	0	2	30
HNUR 1302	A & P for Nursing & Allied Health	4	0	4	90
HNUR 1312	Basic Nutrition	2	0	2	45
HNUR 1310	Introduction to Practical Nursing	2	0	2	60
HNUR 1311	Advanced Nursing Fundamentals	1	1	2	90
HNUR 1322	Basic Pharmacology for PN	1	1	2	75
HNUR 1460	Advanced Pharmacology	2	0	2	45
HNUR 2113	Medical Surgical Nursing I	5	3	8	260
HNUR 2123	Medical Surgical Nursing II	5	3	8	260
HNUR 2133	Medical Surgical Nursing III	5	3	8	260
HNUR 2143	Mental Illness Nursing	1	1	2	80
HNUR 2153	Maternal Child Nursing	1	1	2	80
HNUR 2163	Pediatric Nursing	1	1	2	80
HNUR 2173	PN Professionalism, Leadership & Management	3	1	4	100
HNUR 2183	IV Therapy for Practical Nursing	2	0	2	45
	<i>TD – PRACTICAL NURSING</i>			58	1735
ENGL 1010	English Composition I	3	0	3	45
MATH 1100	College Algebra OR Contemporary Math	3	0	3	45
	Social Science Elective	3	0	3	45
	Natural Science Elective	3	0	3	45
	Humanities Elective	3	0	3	45
	AAS – PRACTICAL NURSING			73	1960

Associate of Science in Business Administration - 01/13/2020

TYPE OF PROPOSED CHANGE : New Program
PROGRAM NAME : Associate of Science in Business Administration

AWARD LEVEL(S)	
For Board of Regents and LCTCS Review: Associate of Science (A.S.) Name:	For LCTCS Review: Technical Diploma (T.D.) Certificate of Technical Studies (C.T.S.) Career and Technical Certificate (C.T.C) TCA - For Archive Purpose Only

NAME OF PROGRAM(S) and AWARD LEVEL(S)			
Stars : 5 Stars			
Name: Business Administration		Program Delivery Mode: Hybrid	
CIP: 520101	Credit Hours: 60.00	Contact Hours: 900.00	Associate of Science (A.S.)

PROPOSED CHANGE a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.
Program Description: The Associate of Science in Business Administration program is designed to prepare students for entry-level administrative/managerial positions in various business enterprises. The program is designed for students seeking a broad program of study in all phases of business practices. This degree encompasses the critical areas of business operations (communications, finance, accounting, economics, and business law).

IMPLEMENTATION DATE (Semester and Year)	Fall 2020
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HISTORY OF PRIOR ACTIONS Provide an overview of changes to this program.
N/A

JUSTIFICATION FOR THE PROPOSED CHANGE

Include support such as four-year university agreements, industry demand, advisory board information, etc.

CLTCC is developing articulation agreements with LSUA and NSU. This program was designed to lead to employment and will provide transfer opportunities to students wishing to take advantage of these agreements.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus, Sites (list below)

Natchitoches

QUALIFIED FACULTY (Check all that apply)

Use Existing Faculty: Yes # - Full Time: 2 # - Part Time: 2	Hire Adjunct Faculty: Yes # - 4	Hire Full-Time Faculty: No # - 1
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ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY

Education: Masters Degree	Experience: 3 years	Certification:
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FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department : Business

Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.

An additional full-time and 4 adjunct instructors will be hired in the business department to support the additional degree.

ANTICIPATED ENROLLMENT:

Students	Year One	Year Two	Year Three	Year Four	Year Five
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DAY	20	30	40	50	60
EVENING					
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	The initial enrollment projection is based on the enrollment in the current A.A.S. in Business Office Administration.				

PROGRAM ACCREDITATION:	
Is Program Accreditation, Licensure or Certification Required?	Mandatory Accreditation status: Will Apply
Type/Name of Program Accreditation, Licensure or Certification Required:	Accreditation Council for Business Schools and Programs (ACBSP) The college will apply after SACSCOC accreditation.

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

PROGRAM CURRICULUM							
Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.							
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration: Business Administration					Credit Hours: 60.00		
ENGL	1010	English Composition I	3.00	0.00	45.00	3.00	0.00
ENGL	1020	English Composition II	3.00	0.00	45.00	3.00	0.00
MATH	1100	College Algebra	3.00	0.00	45.00	3.00	0.00
MATH	2100	Introductory Statistics	3.00	0.00	45.00	3.00	0.00
		Social Science Elective	3.00	0.00	45.00	3.00	0.00
		Natural Science Elective	3.00	0.00	45.00	3.00	0.00
		Natural Science Elective	3.00	0.00	45.00	3.00	0.00
		Humanities Electives	3.00	0.00	45.00	3.00	0.00

		Fine Arts Electives	3.00	0.00	45.00	3.00	0.00
BUSN	1030	Introduction to Business	3.00	0.00	45.00	3.00	0.00
ISYS	1150	Computer Applications	3.00	0.00	45.00	3.00	0.00
ACCT	2100	Intro to Financial Accounting	3.00	0.00	45.00	3.00	0.00
ACCT	2110	Intro to Managerial Accounting	3.00	0.00	45.00	3.00	0.00
ECON	2010	Principles of Macroeconomics	3.00	0.00	45.00	3.00	0.00
ECON	2020	Principles of Microeconomics	3.00	0.00	45.00	3.00	0.00
BUSN	2100	Principles of Management	3.00	0.00	45.00	3.00	0.00
BUSN	2200	Foundations of Marketing	3.00	0.00	45.00	3.00	0.00
BUSN	2300	Business Law	3.00	0.00	45.00	3.00	0.00
ISYS	1150	Fundamentals of Information Systems	3.00	0.00	45.00	3.00	0.00
		Business Elective	3.00	0.00	45.00	3.00	0.00

BENEFITS TO THE SYSTEM

Discuss how this change will benefit your students, your community, and the LCTCS.

The program will give students the opportunity to earn an associate degree in business and provide students the option to continue their education without a loss of credits.

KEYWORDS

Industrial Manufacturing Technology - 01/08/2020

TYPE OF PROPOSED CHANGE : Curriculum Modification			
PROGRAM NAME : Industrial Manufacturing Technology			
AWARD LEVEL(S)			
For Board of Regents and LCTCS Review:		For LCTCS Review:	
Name:		Technical Diploma (T.D.) Certificate of Technical Studies (C.T.S.) Career and Technical Certificate (C.T.C) TCA - For Archive Purpose Only	
NAME OF PROGRAM(S) and AWARD LEVEL(S)			
Stars : 5 Stars			
Name: Industrial Manufacturing Technology		Program Delivery Mode: Hybrid	
CIP: 15.0613	Credit Hours: 45.00	Contact Hours: 1350.00	Technical Diploma (T.D.)
Stars : 5 Stars			
Name: Industrial Manufacturing		Program Delivery Mode: Hybrid	
CIP: 15.0613	Credit Hours: 16.00	Contact Hours: 450.00	Certificate of Technical Studies (C.T.S.)
Name: Industrial Electronics Technician		Program Delivery Mode: Hybrid	
CIP: 15.0613	Credit Hours: 30.00	Contact Hours: 915.00	Certificate of Technical Studies (C.T.S.)
Name: Millwright Apprentice		Program Delivery Mode: Hybrid	
CIP: 15.0613	Credit Hours: 28.00	Contact Hours: 840.00	Certificate of Technical Studies (C.T.S.)
Name: Basic Machine Tool Technology		Program Delivery Mode: Hybrid	
CIP: 15.0613	Credit Hours: 31.00	Contact Hours: 945.00	Certificate of Technical Studies (C.T.S.)

Stars : 3 Stars

Name: Manufacturing Fundamentals

Program Delivery Mode: Hybrid

CIP: 15.0613

Credit Hours: 10.00

Contact Hours: 240.00

Career and Technical
Certificate (C.T.C)

IBC: Certified
Production
Technician
(CPT)

Issuing Body:
Manufacturing
Skill Standards
Council
(MSSC)

Course Title:
Introduction to
Fabrication,
Process
Technology, &
Machining

Course
Prefix: IMFG

Course
Number:
1300

Credits
Awarded:
10.00

IBC
Awarded
upon
Completion?:

PROPOSED CHANGE

a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.

New
CTC – Manufacturing Fundamentals (10 credit, 240 clock)
CTS – Industrial Manufacturing (16 credit, 450 clock)

Delete
CTS –Certification for Manufacturing (C4M) (16 credit, 450 clock)

Rename
CTS – CNC Operator 31 credit, 945 clock) to CTS – Basic Machine Tool Technology (31 credit, 945 clock)
Rename the “Machine Tool Technology” TD Concentration to “Machinist Technology”

IMPLEMENTATION DATE
(Semester and Year)

Fall 2020

HISTORY OF PRIOR ACTIONS

Provide an overview of changes to this program.

The program was first approved on November 14, 2012.

JUSTIFICATION FOR THE PROPOSED CHANGE

Include support such as four-year university agreements, industry demand, advisory board information, etc.

The changes were recommended by the program advisory committee.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus, Sites (list below)

Natchitoches

QUALIFIED FACULTY (Check all that apply)

Use Existing Faculty: Yes # - Full Time: 3 # - Part Time: 1	Hire Adjunct Faculty: No # - 0	Hire Full-Time Faculty: No # - 0
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ADMINISTRATION and IMPLEMENTATION COSTS		
Department :		
How will this change affect the administrative structure and/or allocation of departmental funds in terms of:		
Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: Associates Degree	Experience: 3 years	Certification: C4M Instructor

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS
Department : Manufacturing
Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.
No fiscal impact

ANTICIPATED ENROLLMENT:					
Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	68	73	78	83	89
EVENING					
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	The Manufacturing program is expanding a program that involves work-based options while enrolled in school along with a 2+2 with Northwestern State University.				

PROGRAM ACCREDITATION:

Is Program Accreditation, Licensure or Certification Required?	No Accreditation status: N/A
Type/Name of Program Accreditation, Licensure or Certification Required:	

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

PROGRAM CURRICULUM Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.							
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration:						Credit Hours: 0.00	

BENEFITS TO THE SYSTEM
Discuss how this change will benefit your students, your community, and the LCTCS.
The changes will ensure that the program is consistent with current industry standards.

KEYWORDS



INDUSTRIAL MANUFACTURING TECHNOLOGY (15.0613)

Fall 2020

DIVISION: Technical Studies

DEPARTMENT: Manufacturing

DIPLOMA/CERTIFICATE OPTIONS

- CTC –MANUFACTURING FUNDAMENTALS
- CTS – INDUSTRIAL MANUFACTURING
- CTS – INDUSTRIAL ELECTRONICS TECHNICIAN
- CTS – MILLWRIGHT APPRENTICE
- CTS – BASIC MACHINE TOOL TECHNOLOGY
- TD – INDUSTRIAL MANUFACTURING TECHNOLOGY
- AAS – TECHNICAL STUDIES (INDUSTRIAL MANUFACTURING CONCENTRATION)

TD CONCENTRATIONS:

- ELECTRICAL & INSTRUMENTATION (E&I)
- MILLWRIGHT
- MACHINIST TECHNOLOGY

SPECIAL COMMENTS: This diploma consists of a core set of courses and 3 concentration areas from which the student can choose to complete the diploma credential.

Optional prep course is CPTR 1002 (Computer Literacy & Applications)

CURRICULUM

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
CORE COURSES:					
ORNT 1000	Freshman Seminar	1	0	1	15
IMFG 1100	Introduction to Manufacturing	2	0	2	30
IMFG 1120	Tools and Equipment Used in Manufacturing	1	1	2	60
IMFG 1200	Automation	1	1	2	45
IMFG 1300	Introduction to Fabrication, Process Technology, & Machining	1	2	3	90
	CTC –MANUFACTURING FUNDAMENTALS			10	240
IMFG 1215	Basic AC/DC Electrical	1	2	3	105
IMFG 1121	Basic Mechanical	1	2	3	105
	CTS – INDUSTRIAL MANUFACTURING			16	450
INDUSTRIAL ELECTRICAL & INSTRUMENTATION CONCENTRATION: (Core + the following)					
IMFG 1433	Wiring/Electrical Blueprint Interpretation	1	1	2	60
IMFG 1150	Fluid Power I	1	2	3	90
IMFG 1235	Motor Controls	1	2	3	105
IMFG 2123	Understanding Programmable Controllers	1	2	3	105
IMFG 2100	Basic Process Control	1	2	3	105
	CTS – INDUSTRIAL ELECTRONICS TECHNICIAN			30	915
IMFG 1250	Advanced Programmable Controllers Mechatronics	1	2	3	105
IMFG 2800	Advanced Process Control Mechatronics	1	3	4	120
	Elective or Coop	0	3	3	90
	Elective or Coop	0	3	3	90

JOBS 2450	Job Seeking Skills	2	0	2	30
	TD –INDUSTRIAL MANUFACTURING - (ELECTRICAL & INSTRUMENTATION CONCENTRATION)			45	1350
MILLWRIGHT CONCENTRATION: (Core + the following)					
IMFG 1320	Millwright I	3	0	3	45
IMFG 1321	Millwright I Lab	0	2	2	90
IMFG 1420	Millwright II	2	0	2	60
IMFG 1421	Millwright II Lab	0	3	3	105
IMFG 1130	Pneumatics Applications	0	2	2	90
	CTS – MILLWRIGHT APPRENTICE			28	840
IMFG 1325	Pipefitting	0	2	2	60
IMFG 1140	Hydraulics Applications	0	3	3	90
IMFG 1210	Material Handling	1	1	2	60
IMFG 1315	Welding	0	2	2	90
	Elective or Co-op	0	3	3	90
	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
				45	1350
MACHINIST TECHNOLOGY CONCENTRATION: (Core + the following)					
IMFG 1110	Shop Mathematics	2	1	3	75
IMFG 1310	Machine Shop I	3	3	6	150
IMFG 1340	Basic Lathe	0	3	3	135
IMFG 1440	Basic Mill	0	3	3	135
	CTS- BASIC MACHINE TOOL TECHNOLOGY			31	945
IMFG 1410	Machine Shop II	3	3	6	150
IMFG 2710	CNC	1	2	3	135
	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
	TD – INDUSTRIAL MANUFACTURING – (MACHINE TOOL TECHNOLOGY CONCENTRATION)			45	1350
ENGL 1010	English Composition I	3	0	3	45
MATH XXXX	College Algebra OR Contemporary Math	3	0	3	45
	Social Science Elective	3	0	3	45
	Natural Science Elective	3	0	3	45
	Humanities Elective	3	0	3	45
AAS – TECHNICAL STUDIES (INDUSTRIAL MANUFACTURING CONCENTRATION)				60	1575

FALL 2020