## **Academic Curricula**

# Associate in Applied Science (A.A.S.) Curricula

### **Advanced Integrated Technology**

The Advanced Integrated Technology (AIT) program is a program of study that employs the principle of technology integration within sought after certifications: Multi-skilled Technician, Power Plant Operator, Engineering Controls, Mechatronic Operator and Industrial Refrigeration certifications. Within each certification area, a systems approach is employed that is in line with the expectations of current day employers. The AIT program offers both online coursework and flexible lab hours.

The AIT graduate will have acquired a high level of mechanical and electrical skill sets that can provide them with opportunities to work in today's technically advanced industrial settings (both in manufacturing and value-added 2nd tier support roles). These skill sets include robotics and PLC programming, drive configuration, advanced electric motor control, hydraulics/pneumatics, refrigeration and mechanical drive systems used in modern industry. The curriculum addresses mechanical and electrical theory and its application in today's industrial environment. Critical thinking objectives are also incorporated that will expose the student to problem solving strategies and techniques for troubleshooting the latest generation of high tech equipment.

The Power Plant Technician certification is designed for entry level positions in the Power Plant Industry as a multi-skilled technician. These industries include, but are not limited to, positions in fossil fuel, hydro, nuclear, and alternative energy power plants. Also included are any industries where steam and electricity is generated. Imbedded within the curriculum is an Edison Electrical Institute Exam prep course to help graduates better prepare for the power plant entrance exam.

Students enrolled in the Advanced Integrated Technology Programs are required to achieve a minimum grade of "C" in technical courses.

#### Associate in Applied Science

#### Advanced Integrated Technology - 1504997019

(Offered at MDC)

Required General Education:				
MAT	126	Technical Algebra and Trigonometry OR		
MAT	150	College Algebra OR(3)		
		Higher MAT course(3)		
PHY	151	Introductory Physics I AND		
PHY	161	Introductory Physics I Lab OR		
PHY	171	Applied Physics(4)		
ENG	101	Writing I OR		
ENG	105	Writing: An Accelerated Course(3)		
		Social/Behavioral Science course		
		Heritage/Humanities course (HIS 107 suggested) 3		
		Subtotal 16		
Technical Core:				
AIT	100	Power Generation & Utilization		
AIT	110	Power Distribution Systems		

AIT	120	Equipment Installation	3
AIT	130	Measurement and Instrumentation	4
AIT	140	Industrial Controls I	4
AIT	150	Industrial Controls II	4
AET	190	Industrial Computer Programming Concepts	4
AIT	210	Equipment Maintenance	4
		Subtotal	30

Choose 14 hours (not duplicated from the core) from the following Technical Courses. Students may select other courses as approved by the Advanced Integrated Technology Program Coordinator.

PLW	100	Introduction to Engineering Design	4
PLW	125	Principles of Engineering	
ACR	100	Refrigeration Fundamentals	3
ACR	101	Refrigeration Fundamentals Lab	2
ACR	102	HVAC Electricity	3
ACR	103	HVAC Electricity Lab	2
ACR	130	Electrical Components	3
ACR	131	Electrical Components Lab	2
IMT	100	Welding for Maintenance	3
IMT	101	Welding for Maintenance Lab	2
CMM	112	Fundamentals of Machine Tools-B	4
AIT	135	Industrial Refrigeration I	
AIT	160	Workplace Safety	1
AIT	200	Process Management and Quality Control	4
AIT	220	The Integrated Power Grid	
AIT	230	Integrated Power Plant Operations	3
AIT	235	Industrial Refrigeration II	3
AIT	270	Introduction to Robotics and Programmable Logic	
		Controllers	
ELT	250	Programmable Logic Controllers	4
AET	250	PLC Networking.	4
AET	270	Advanced PLC Programming	
AIT	290	Selected Topics in Advanced Integrated Technology0.1-5.	
AIT	299	Advanced Electromechanical Concepts	4
		Approved Technical Courses	4
		Total 6	0

Demonstration of digital literacy is required for the AAS degree.

100

ACR

#### Certificate

#### Multi-Skilled Technician - 1504993110

ACR	101	Refrigeration Fundamentals Lab	2
IMT	100	Welding for Maintenance	3
IMT	101	Welding for Maintenance Lab	2
CMM	112	Fundamentals of Machine Tool-B	4
AIT	200	Process Management and Quality Control	4
AIT	270	Introduction to Robotics and Programmable Logic	
		Controllers	2
		Total	20
		F ' ' O . I 4F04000400	
		Engineering Controls - 1504993120	
AIT	140	Engineering Controls - 1504993120 Industrial Controls I	4
AIT AIT	140 150		
		Industrial Controls I	4
AIT	150	Industrial Controls I	4 4
AIT AET	150 190	Industrial Controls I	4 4 4
AIT AET ELT	150 190 250	Industrial Controls I	4 4 4
AIT AET ELT AET	150 190 250 250	Industrial Controls I	4 4 4
AIT AET ELT AET AET	150 190 250 250 270	Industrial Controls I	4 4 4 4

#### Power Plant Operator - 1504993130 The curriculum addresses concepts in theory, skills and techniques that are required by the agriculture industry. It will use hands-on strategies, (Offered at MDC) which require an integrated practicum across a variety of settings. Grad-101 FNM uates will seek job opportunities in the agriculture industry on commer-220 AIT cial farms and businesses related to the agriculture industry. 230 Associate in Applied Science Mechatronics Operator - 1504993089 Agriculture Technology - 0103017019 (Offered at MDC) (Offered at HEC, HPC, OWC) 100 Power Generation and Utilization ......4 AIT AIT 110 General Education: 1203 ENG 101 AIT **ENG** 102 Total COM 252 MAT 105 Industrial Refrigeration - 1504993140 MAT 110 Applied Mathematics OR .....(3) ACR 100 MAT 150 College Algebra .....(3) ACR 101 101 ACR 102 ACR 103 112 ACR 130 BIO 113 ACR 131 BIO 114 Biology I\* AND .....(3) 135 AIT **BIO** 115 Biology I Lab\* OR.....(1) AIT 235 BIO 116 Biology II\* AND .....(3) BIO 117 Biology II Lab\* OR.....(1) BIO 143 Zoology with Laboratory\* OR.....(4) BIO 141 Botany with Laboratory\* OR.....(4) **African American Studies** BIO 150 Principles of Biology I\* AND.....(3) BIO 151 Principles of Biology Lab I\*....(2) CHE 130 Introductory General and Biological Chemistry OR ...... 4 The African American Studies Certificate Program provides an interdisci-CHE 140 Introductory General Chemistry AND .....(3) plinary approach to identify and engage the historical and contemporary CHE 145 Introductory General Chemistry Lab I OR .....(1) issues confronting Africans and African Americans. Core courses include CHE 170 General College Chemistry I AND .....(3) African American history, literature, and music. Additional courses in CHE 175 General College Chemistry Lab I .....(1) communication, humanities, and social sciences complete the program. Technical Core: Certificate AGR 125 AGR 140 African American Studies - 0501013029 AGR 180 Agricultural Internship I.......2 AGR 230 (Offered at ELC, JFC) AGR 240 ENG 101 Writing I ...... 3 106 ASC Agriculture Animal Science ......(3) HIS 260 AGR 250 261 HIS MUS 207 **ENG** 264 **Total Credits** Agricultural Technology Track - 010301701 \*African American Studies Certificate Elective: (Required: 3 **AGR** 130 credits) 150 AGR COM 299 AGR 170 Introduction to Equipment, Machines, and Engines............. 3 ANT 160 AGR 190 FLK 280 AGR 200 SOC 235 AGR 220 MHS 104 HUM 150 REL 101 Total Credits Agricultural Technology Track 66-67 REL 130 ART 104 Sustainable Agriculture Track - 010301702 TA 299 160 AGR AGR 260 **Agricultural Technology** 270 AGR BAS 160

282

BAS

The Agricultural Technology program prepares students for occupations

in a wide variety of jobs in agriculture (both production and value-add-

ed) with a range of skills and knowledge.

15

66-67

Total Credits Sustainable Agriculture Track

#### Diploma

Agricultural Technology -0103014019
(Offered at HEC, HPC, OWC)

		General Education Courses:	
		Written Communication, Oral Communications, or	
		Humanities/Heritage	3
AGR	101	The Economics of Food and Agriculture	3
		Subtotal	6

#### **Technical Courses:**

AGR	125	Introduction to Fertilizers and Soils	3
AGR	130	Field Applications in Agriculture	2
AGR	140	Issues in Agriculture	3
AGR	150	Agricultural Power	3
AGR	170	Introduction to Equipment, Machines, and Engines	3
AGR	180	Agricultural Internship I	2
AGR	190	Agricultural Internship II	2
AGR	200	Agricultural Internship III	2
AGR	220	Computers in the Agricultural Environment	3
AGR	230	Career Development in Agriculture	3
AGR	240	Animal Science	3
AGR	250	Introduction to Plants/Crop Production	3
		Digital Literacy	3
		Subtotal	35
		Total Credits	41

#### **Certificates**

#### Agricultural Technician - 0103013009

		(Offered at ASC, HEC, HPC, OWC)	
AGR	140	Issues in Agriculture	3
AGR	150	Agricultural Power	3
		Digital Literacy	3
AGR	230	Career Development in Agriculture	3
AGR	180	Agricultural Internship I	2
AGR	125	Introduction to Fertilizers and Soils	3
AGR	190	Agricultural Internship II	2
AGR	170	Introduction to Equipment, Machines, and Engines	3
AGR	130	Field Applications in Agriculture	2
		Total Credits	24

#### Sustainable Agriculture - 0103013029

		Justailiabio ngi ibultui 6 - 0 1000 10020	
AGR	140	Issues in Agriculture	3
AGR	260	Introduction to Sustainable Agriculture	3
BAS	160	Introduction to Business	3
AGR	250	Introduction to Plants and Crop Production	3
AGR	240	Animal Science	3
AGR	125	Introduction to Fertilizers and Soils	3
AGR	160	Horticulture Science	3
AGR	270	Introduction to Organic Agriculture	3
BAS	282	Principles of Marketing	
		Total Credits	27

## **Air Conditioning Technology**

Installing and servicing heating, air conditioning and refrigeration equipment is the focus of this program. Academic courses, theory courses, and laboratory experiences are designed to promote success in the air conditioning field.

The Boiler Maintenance Certificate is designed to complement our Associate in Applied Science (AAS) and Diploma for students enrolled in Air Conditioning Technology Program. Installing, initial start-up and servicing commercial boilers used in HVAC applications is the focus of

this certificate. Theory courses and laboratory experiences are designed to promote success in boiler service and facility management.

The Chiller Certificate is designed to complement our Associate in Applied Science and Diploma for students enrolled in Air Conditioning Technology Program. Installing and servicing Chillers used in commercial and industrial applications is the focus of this certificate. Theory courses and laboratory experiences are designed to promote success in the service and maintenance of Chillers.

Students enrolled in the Air Conditioning Technology program must achieve a minimum grade of "C" in each technical course.

### Associate in Applied Science

#### Air Conditioning Technology - 4702017019

(Offered at BLC, BSC, ELC, MDC, SKY)

#### **General Education:**

Quantitative Reasoning
Natural Sciences
Social/Behavioral Sciences 3 credit hours
Heritage/Humanities 3 credit hours
Written Communication
Oral Communications

#### Subtotal Credits 18

#### **Technical Courses:**

Total Credits	60-66
Subtotal Credits	42-48
Electives**	9-11
Heat Pump Application Lab	2
Heat Pump Application	3
Heating and Humidification Lab	3
Heating and Humidification	3
Cooling and Dehumidification Lab	2
Cooling and Dehumidification	
Heat Load/Duct Design	
Electrical Components Lab	2
Electrical Components	
Comparable Electrical Course*	
HVAC Electricity Lab OR	
HVAC Electricity AND	
Refrigeration Fundamentals Lab	
Refrigeration Fundamentals	3
Computer/Digital Literacy	0-3

Computer/Digital literacy must be demonstrated either by competency exam or by completing a computer/digital literacy course.

#### Diploma

#### Heating, Ventilation, and Air Conditioning Mechanic - 4702014009

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)

Written Communication, Oral Communications, OR

#### **General Education:**

Area 1 =

Area 2 =		Humanities/Heritage		
		Quantitative Reasoning	3	
		Subtotal Credits	6	
		Computer/Digital Literacy course OR		
		demonstrated competency	0-3	
ACR	100	Refrigeration Fundamentals	3	
ACR	101	Refrigeration Fundamentals Lab	2	
ACR	102	HVAČ Electricity AND		

ACR	103	HVAC Electricity Lab OR			Refrigeration Mechanic - 4702013059
ACD	120	Comparable Electrical Course*	(Offe	red at A	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC,
ACR	130	Electrical Components	\ D		SMC,WKC)
ACR	131	Electrical Components Lab	ACR	100	Refrigeration Fundamentals
ACR	170	Heat Load/Duct Design OR	ACR	101	Refrigeration Fundamentals Lab
ACR	209	Manual N Commercial Load Calculations & Design(4)	ACR	102	HVAC Electricity AND
ACR	250	Cooling and Dehumidification	ACR	103	HVAC Electricity Lab OR
ACR	251	Cooling and Dehumidification Lab	non	103	Comparable Electrical Course*(4-5)
ACR	260	Heating and Humidification	ACR	130	Electrical Components
ACR	261	Heating and Humidification Lab	ACR	131	Electrical Components Lab
ACR	270	Heat Pump Application AND	ACR	200	Commercial Refrigeration
ACR	271	Heat Pump Application Lab OR2	ACR	201	Commercial Refrigeration Lab
ACR	207	Commercial HVAC Systems(5)	ACR	210	Ice Machines
		Electives**8-11	ACR	250	Cooling and Dehumidification
		Subtotal Credits 41-49	ACR	251	Cooling and Dehumidification Lab
		Total Credits 47-55	иси	231	Total Credits 27-28
					10tal Credits 27-20
		Certificates			Boiler Maintenance - 4702013079
	F		ACR	100	Refrigeration Fundamentals
	Envi	ronmental Control System Servicer - 4702013039	ACR	101	Refrigeration Fundamentals Lab
(Offe	red at AS	C, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	ACR	102	HVAC Electricity AND
\ D		SKY, SMC,WKC)	ACR	103	HVAC Electricity Lab OR
ACR	100	Refrigeration Fundamentals	ACR	206	Boilers 5
ACR	101	Refrigeration Fundamentals Lab	ACR	207	Commercial HVAC Systems5
ACR	102	HVAC Electricity AND			Total Credits 20
ACR	103	HVAC Electricity Lab OR			
пск	103	Comparable Electrical Course*(4-5)			01'11 14 ' 1 470001000
ACR	130	Electrical Components			Chiller Maintenance - 4702013089
ACR	131	Electrical Components Lab	ACR	100	Refrigeration Fundamentals
ACR	250	Cooling and Dehumidification	ACR	101	Refrigeration Fundamentals Lab
ACR	251	Cooling and Dehumidification Lab	ACR	102	HVAČ Electricity AND
ACR	260	Heating and Humidification	ACR	103	HVAC Electricity Lab OR
ACR	261	Heating and Humidification Lab	ACR	208	Chillers5
иси	201	Total Credits 25-26	ACR	209	Manual N Load Calculation & Design4
		10th Credits 25 20			Total Credits 19
	Env	rironmental System Repair Helper - 4702013069			
(Offe		C, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC,			Appalachian Studies
(3)		SKY, SMC,WKC)			nppaiaoiliali otaalos
ACR	100	Refrigeration Fundamentals		, ,	
ACR	101	Refrigeration Fundamentals Lab			nian Studies certificate will provide students a wide variety
ACR	102	HVAC Electricity AND			directions to follow. The key components for each track,
ACR	103	HVAC Electricity Lab OR			202, 203, and 204, will form the core for the Appalachian
ACR	130	Electrical Components AND(3)	Studie	es certif	ficate and will provide a basic overview of all aspects of
ACR	131	Electrical Components Lab OR	Appal	achian :	studies. Given this core, students can then select a more
Here	131	Comparable Electrical Course*(4-5)			ct of Appalachian culture to study.
		Total Credits 9-10			The state of the s
		7.10			Certificate
	Domest	ic Air Conditioner and Furnace Installer- 4702013029			
(Offe		C, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC,			Appalachian Studies - 0501223069
(-3)		SKY, SMC,WKC)			(Offered at ASC, HZC, SEC)
ACR	100	Refrigeration Fundamentals	Corro		$\omega$
ACR	101	Refrigeration Fundamentals Lab	Core		C CA 1 1: C, 1: I
ACR	102		HUM		Survey of Appalachian Studies I
ACR	103	HVAC Electricity AND	HUM	203	Survey of Appalachian Studies II
11011	103	HVAC Electricity Lab OR	HUM	204	Appalachian Seminar
ACR	130				Subtotal 9
ACR	131	Electrical Components Lab			
ACR	170	Electrical Components Lab			Communication Track - 050122301
ACR	250	Heat Load/Duct Design 3			
ACR	250	Cooling and Dehumidification	COM	254	(Offered at ASC, HZC, SEC) Introduction to Interval world Communication OR
ACR	260	Cooling and Dehumidification Lab	COM	∠54	Introduction to Intercultural Communication OR
		Heating and Humidification			Elective approved by Appalachian Studies Committee
ACR ACR	261 270	Heat Pump Application Lab			or its designee(3)
		Heat Pump Application			Total 12
ACR	271	Heat Pump Application Lab			
ACR	290	Journeyman Preparation			
		10tai Cieutts 36-37			

#### Associate in Applied Science Creative Writing Track - 050122302 (Offered at ASC, HZC, SEC) 207 Applied Engineering Technology - 1504997029 ENG Elective approved by Appalachian Studies Committee (Offered at MYC,WKC) or its designee .....(3) General Education (required for all tracks): MAT 126 Technical Algebra and Trigonometry OR Music Track - 050122303 MAT 150 PHY 171 (Offered at ASC, SEC) 101 Folk and Traditional Music of the Western Continents ....... 3 MU Total Heritage/Humanities......3 Subtotal Science Track - 050122304 Technical Core (required for all tracks): (Offered at ASC, SEC) CIS 100 Introduction to Computers OR demonstrated competency 0-3 BIO 120 AET 110 Introduction to Circuit Analysis OR Elective approved by Appalachian Studies Committee Electrical course approved by Program Coordinator......4 140 or its designee ......(3) AET GLY 101 BRX120 GLY 111 CAD 100 COM 252 COM 181 Basic Public Speaking .....(3) FPX 100 Social Science Track - 050122305 **FPX** 101 Fluid Power Lab. 2 (Offered at ASC, SEC) **ISX** 101 Introduction to Industrial Safety OR Safety course SWK 275 Elective approved by Appalachian Studies Committee Subtotal or its designee ......(3) ANT 220 Automated Manufacturing Track - 150499703 (Offered at MYC,WKC) CAD Advanced 3D Modeling.....4 **Applied Engineering Technology** CMM 110 CMM 130 CAD/CAM/CNC.....3 132 CMM CMM 240 Introduction to 3-D Programming ......6 Track Subtotal Track Total 60-63 Electromechanical Systems Track - 150499704 (Offered at MYC,WKC) 160 AET 268 EET EET 269 Rotating Machinery Electrical Motor Controls I Lab ........ 4 276 EET 277 210 ISM Fundamentals of Process Control......4

**EET** 

EET

MS

MS

MS

276

277

110

120

130

150

Track Subtotal

Track Subtotal

Track Total

Mechatronic Systems Track - 150499705

(Offered at MYC,WKC)

Mechatronic Systems Electrical Components ...... 4

Mechatronic Systems Mechanical Components ...... 4

Mechatronic Systems Hydraulic/Pneumatic Components .... 4

Mechatronic Systems Programmable Logic Controllers ...... 4

60 - 63

61-64

Track Total

The Applied Engineering Technology curriculum (AET) introduces students to basic experimental engineering principles and concepts by applying contemporary skills and knowledge in a variety of employment positions based on industry needs. It provides students with a strong foundation of engineering practices to stimulate their interest by using a problem-solving approach in state-of-the-art laboratories. It builds leadership, management, communication skills, and professional ethics, which serve as a foundation for future development and career success. The program contains core technical courses and advanced courses in each track to address the employment needs of a global market. The degree consists of seven Associate in Applied Science degree tracks: 1) Automated Manufacturing, which emphasizes rapid manufacturing and computer numerical control programming; 2) Electromechanical, which is a multi-disciplinary program combining information technology and electro-mechanical systems (maintenance, electricity, computers, hydraulics/pneumatics, machining or fabrication, diagnostics and repair, etc.); 3) Mechatronics Systems, which is a multi-disciplinary program emphasizing cross-functional knowledge skills in both mechanical and electrical systems; 4) Electronics Engineering, which emphasizes advanced concepts in electronics as it applies to electronic control circuitry and high frequency applications in the digital and microwave communication industry, particularly those driven by military and government contracts; 5) PLC Programmer, which introduces advanced concepts in PLC programming including networking of PLC's and the writing, debugging, documenting, and implementing of PLC programs utilizing both ladder logic and more advanced languages such as Instruction List, Structured Text, etc.; 6) Instrumentation, which emphasizes process monitoring, control and industrial automation using analog and digital control systems for chemical and manufacturing industries; and 7) Alternative Energy, which emphasizes the practical study and implementation of solar, wind, geo-thermal and bio-fuel technologies.

		Electronics Engineering Track - 150499706		MAT	126	Technical Algebra and Trigonometry OR MAT 150
		(Offered at MYC,WKC)		CMM	120	OR higher level Mathematics course
AET	150	Advanced Circuit Analysis	4	CMM CMM		Manual Programming
AET	160	Industrial Controls Electronics		CMM		CAD/CAM/CNC
AET	170	Digital Circuits and Concepts	4	CIVIIVI	2 <del>1</del> 0	Introduction to 3D Programming
AET	200	Integrated Circuits				lotal 28
AET	220	Modulation Techniques and Applications				
		Track Subtotal	20			Robotics Sensor Technician – 1504993039
		m 1 m / 1	(1.64			(Offered at MYC,WKC)
		Track Total	61-64	AET	110	Introduction to Circuit Analysis OR Electrical
				ALL I	110	course approved by Program Coordinator
		PLC Programmer Track - 150499707		AET	130	Industrial Sensors
		(Offered at MYC,WKC)		AET	260	Robotics and Programmable Controllers4
AET	190	Industrial Computer Programming Concepts	4	ISX	101	Introduction to Industrial Safety OR Safety
AET	250	PLC Networking				course approved by Program Coordinator
AET	260	Robotics and Programmable Controllers		MAT	126	Technical Algebra and Trigonometry OR MAT 150
AET	270	Advanced PLC Programming				OR higher level Mathematics course
EET	276	Programmable Logic Controllers				Total 17
EET	277	Programmable Logic Controllers Lab				
		Track Subtotal	20		_	
		Truck Subtour	_0		٨n	plied Process Technologies
		Track Total	61-64		Λþ	pilou i rocess recililologies
				Prepar	es the gra	aduate for entry-level operations in the power plant, line-
		Instrumentation Track - 150499708				petro-chemical, refining, and general industries. Teaches
		(Offered at MYC,WKC)				automated and semi-automated systems used in various
AET	150	Advanced Circuit Analysis				pares students in the safe start-up, operation and shut-
AET	170	Digital Circuits and Concepts	4			s system components and units. Offers a choice of AAS
AET	200	Integrated Circuits	4			emical/refinery operator, power plant operator, and line-
ISM	102	Fundamentals of Instrumentation				, as well as certificate tracks.
ISM	210	Fundamentals of Process Control	4	man te	cilliology	, as well as cel tilicate tracks.
		Track Subtotal	20	Studer	te calacti	ng the certificate options must test at the MAT126 ready
		Track Total	61-64			ion in the program is contingent upon achievement of
						r higher in the Math, Physics, Chemistry and technical
		Altomostics Fragge Treel 150400700				intenance of a 2.0 cumulative grade point average or bet-
		Alternative Energy Track - 150499709			_	
		(Offered at MYC,WKC)		ter on	a 4.0 scal	ie.
AET	102	Introduction to Energy, Environment and Society				Accordate in Applied Colones
AET	114	Solar and Wind Energy Generation	4			Associate in Applied Science
AET	120	Power Electronics			_	
AET	210	Alternative Energy Independent Studies			A	Applied Process Technologies - 4103017029
CHE	140	Introductory General Chemistry				(Offered at ASC, JFC)
CHE	145	Introductory General Chemistry Lab			1.01	
		Track Subtotal	20			ration Courses
		Track Total	61-64	MAT		Technical Algebra & Trigonometry (Recommended) OR 3
		1140.4.1044.1	01 01	MAT	116	Technical Mathematics
		Cartificata		CHE CHE	130	Introductory General & Biological Chemistry OR
		Certificate		ENG	101	Introduction to General Chemistry with Lab(4) Writing I
		All I' - F		LING	101	Writing I
		Alternative Energy – 1504993099		ECO	101	Contemporary Economic Issues (Recommended)(3)
		(Offered at BLC, BSC, MYC, WKC)		LCO	101	Heritage/Humanities
AET	102	Introduction to Energy, Environment and Society	4	COM	252	Introduction to Interpersonal Communication
AET	110	Introduction to Circuit Analysis OR		COM	232	Subtotal 19
		Electrical course approved by Program Coordinator	·4			
AET	114	Solar and Wind Energy Generation	4	Techr	ical Cor	re Courses
MAT	126	Technical Algebra and Trigonometry OR MAT 150		100111		Computer/Digital Literacy Course
		OR higher level Mathematics course	3	PHS	175	Applied Physics (Recommended) OR6
		Approved Technical Elective	3-5	PHY	171	Applied Physics(4)
		Total	18-20	SFA	101	OSHA, Health, and Environmental Safety
				APT	102	Process Fundamentals
		CAD/CAM Technician – 1504993049		APT	104	Rotating & Reciprocating Equipment
				APT	106	Process Chemistry
DDV	120	(Offered at MYC,WKC)	2	APT	108	Stationary Equipment
BRX	120	Basic Blueprint Reading		APT	202	Federally Mandated Training
CAD	100	Introduction to Computer Aided Design		APT	204	Safety Skills Training
CAD	201 101	Advanced 3D Modeling	+	APT	251	Application of Process Operations OR
ISX	101	Introduction to Industrial Safety OR Safety course approved by Program Coordinator	2	APT	291	Special Problems in APT(2-3)
		Safety course approved by Program Coordinator		EES	101	Basic Electronics
						Subtotal 29-32

Chemical/Refinery Operator Track - 410301701 (Offered at ASC, JFC)			
APT	142	Instrumentation	
APT	144	Process Operations	
APT	146	Process Applications	
APT	148	Process Operations Safety	
		Total 60-63	
APT	142	Power Plant Operator Track - 410301702 (Offered at ASC, JFC) Instrumentation	
APT	154	Power Plant Practice 6	
APT	156	Power Plant Protection	
		Subtotal 12	
		Total 60-63	
		Lineman Technology Track - 410301703	
		(Offered at ASC, JFC)	
APT	158	Lineman Technology I	
APT	159	Lineman Technology I Lab	
EET	150	Transformers	
EET	151	Transformer Lab	
APT	258	Lineman Technology II	
APT	259	Lineman Technology II Lab	
		Total 65-68	
		10tal 03-08	
Electi			
APT	299	Cooperative Education Program (1-6)	
COE	199	Co-op(1-8)	
QMS EX	101 196	Introduction to Quality Systems(3) Experiential Education	
		Certificate	
		Chemical/Refinery Operator - 4103013039	
SFA	101	OSHA, Health and Environmental Safety	
COM	252	Introduction to Interpersonal Communication	
CHE	130	Introductory General & Biological Chemistry OR	
CHE APT	102	Process Fundamentals	
APT	104	Rotating & Reciprocating Equipment	
APT	108	Stationary Equipment	
APT	142	Instrumentation	
APT	144	Process Operations	
APT	146	Process Applications	
EES	101	Basic Electronics         2           Total         31	
		Industrial Worker - 1507013019	
SFA	101	(Offered at ASC, JFC, MYC) OSHA, Health, and Environmental Safety	
SFA	101	Total 3	
		Lineman - 4103013049	
CEA	101	(Offered at ASC, MYC)	
SFA APT	101	OSHA, Health and Environmental Safety	
APT APT	158 159	Lineman Technology I         3           Lineman Technology I Lab         4	
EET	150	Transformers 2	
EET	151	Transformers Lab. 1	
APT			
	258	Lineman Technology II	
APT	258 259	Lineman Technology II Lab	
APT APT		C,	

	-0.	surety stems running.	
APT	251	Application of Process Operations	2
EES	101	Basic Electronics	2
		Total	28
		Power Plant Operator - 4103013029	
SFA	101	OSHA, Health and Environmental Safety	3
COM	252	Introduction to Interpersonal Communication	3
CHE	130	Introductory General & Biological Chemistry OR.	4
CHE	140/145	Introduction to General Chemistry with Lab	(4)
APT	102	Process Fundamentals	4
APT	104	Rotating & Reciprocating Equipment	3
APT	108	Stationary Equipment	
APT	142	Instrumentation	4
APT	154	Power Plant Practice	6
APT	156	Power Plant Protection	2
EES	101	Basic Electronics	2
		Total	33

## **Apprenticeship Studies**

This program is designed to complement specialized study in a national or state approved apprentice curriculum (i.e. 2000 hours per year on the job in a supervised work environment and 144 hours per year of related classroom instruction). Prerequisite: Completion of national/state certified apprenticeship program.

### Associate in Applied Science

#### Apprenticeship Studies - 4799997010

(Offered at ELC, GTW, JFC, WKC)

#### Required:

APT

1		Quantitative Reasoning	3
		Heritage/Humanities	3
		Social/Behavioral Sciences	3
ENG	101	Writing I	3
		Oral Communications	3
PHY	171	Applied Physics OR	4
		Other Natural Sciences course with consent of program	
		coordinator(3	)
		Subtotal 18-19	9

#### **Technical Core:**

Computer/Digital Literacy course OR	
demonstrated competency	0-3
Apprenticeship Credit*	42
Subtotal	42-45
Total Credits	60-64

<sup>\*</sup>Apprenticeship credit requirement can be met by a combination of apprenticeship credit (APS 201: 20-40 credit hours) and other technical courses as approved by the program coordinator.

## **Architectural Technology**

The Architectural Technology program provides instruction in the concepts and skills required for careers in architectural and related professions involved in designing for the built environment. At the core of the curriculum are a series of architectural studios where students prepare construction documents. The series begins with a study of residential construction and culminates with commercial. Emphasis is placed on quality graphic communication, the development of design skills and a thorough understanding of a variety of construction types. Complementing the studio sequence are courses designed to provide instruction in

building materials, structures, mechanical/electrical systems, professional practices, and architectural theory and history. Electives in the program allow students to customize their education to fit their interests. Given the wide range of topics covered in the curriculum, graduates are prepared to find employment in architectural and related professional offices including positions in construction estimating, civil engineering, structural engineering, mechanical/electrical engineering, construction management, computer-aided drafting, building code enforcement, specification writing, urban planning, historic preservation, contracting, sub-contracting, and building material sales and marketing.

#### Associate in Applied Science

#### Architectural Technology - 1513037019

		monitorial roundougy Toronororo
		(Offered at BLC)
		Computer/Digital Literacy0-3
ACH	100	Construction Documents I
ACH	110	Survey of the Architectural Profession
ACH	120	Theory and History of Architecture I
ACH	150	Construction Documents II
ACH	160	Building Materials and Construction I
ACH	161	Building Materials and Construction II
ACH	170	Theory and History of Architecture II
ACH	175	Introduction to Systems
ACH	195	Computer Aided Drafting I
ACH	200	Construction Documents III
ACH	225	Structures
ACH	250	Construction Documents IV
ACH	260	Office Practice
ACH	275	Mechanical and Electrical Systems
		Technical Courses ** (see list below)
ENG	101	Writing I 3
MAT	116	Technical Mathematics OR
MAT	150	College Algebra OR(3)
MA	109	College Algebra OR(3)
		Other Quantitative Reasoning course approved by program
		coordinator(3)
		Heritage/Humanities
		Natural Sciences Course
		Social/Behavioral Sciences Course
		Total 65-68
**T-	.1 1	
		Courses
ACH	180	Selected Topics in Architectural Technology: (Topic) 1-3
ACH	194	Visual Composition
ACH	290	Building Codes I
ACH	291	Construction Management
ACH	292	Building Codes II
ACH	293	Presentation Techniques
ACH	294	Specification Writing
ACH	295	Computer Aided Drafting II
ACH	297	Estimating Techniques
ACH	298	Computer 3D Modeling
COE	199	Cooperative Education: Arch Tech
		Suggested General Education Courses (Not
Requ	,	
ENG	102	Writing II
COM	181	Basic Public Speaking

### **Arts Administration**

The Certificate in Arts Administration prepares students for entry-level management and service positions in local arts institutions, such as museums, cultural centers, orchestras, operas and galleries. This certificate will provide students new to the arts administration field, and individuals already working in the arts, with the needed training and appropriate experience to work in a variety of arts and cultural institutions. Students participating in the Arts Administration Certificate will take core courses in Arts Administration plus a series of English, business and communication courses and choose an arts emphasis in studio art, art history, music, music technology or theatre.

#### Certificate

		Gertilligate	
		Arts Administration - 5010023019	
		(Offered at JFC)	
AAD	100	Introduction to Arts Administration	3
AAD	200	Fundamentals of Arts Administration	3
BAS	160	Introduction to Business	
BAS	282	Principles of Marketing	
COM ENG	181 101	Basic Public Speaking Writing I	
ENG	102	Writing II	
		Subtotal	21
		Studio Art Track - 501002701	
ART	110	(Offered at JFC) Drawing I	3
ART	120	2-D Design OR	
ART	130	3-D Design	
		Subtotal	6
		Total Credits	27
		Art History Track -501002702  (Offered at JFC)	
ART	105	Ancient through Medieval Art History	3
ART	106	Renaissance through Modern Art History	
		Subtotal	6
		Total Credits	27
		Music Track - 501002703 (Offered at JFC)	
MUS	100	Introduction to Music	3
MUS	222	History and Sociology of Rock and Roll Subtotal	3 <b>6</b>
		Total Credits	27
		Music Technology Track - 501002704  (Offered at JFC)	
MUS	174	Theory for Non- Music Majors –	
	400	prerequisite for all Music Tech	
MUS	120	Music Technology I	
MUS	121	Music Technology II	د <b>9</b>
		Total Credits	30
		Theeter Tural, F0100070F	
		Theatre Track - 501002705	

(Offered at JFC)

126

Subtotal Total Credits

THA

### **Automotive Technology**

Instruction in systems such as engines, fuel, on-board computers, transmissions, steering, suspension, and brakes is the basis for this program.

The Automotive Technician track provides knowledge of the various systems used to develop skills in troubleshooting, performing preventative maintenance, servicing and repairing automobiles. The program, which is designed to be completed in two years, prepares graduates for entrylevel service technician jobs in the auto repair industry. The student may be provided a work-study experience alternating between periods of work on-site and work in a classroom-laboratory setting.

The Parts/Service Writer track provides knowledge of the various systems and components and how they relate. This knowledge enables the student to more accurately interpret their customers' automotive complaints, identify and sell automotive parts, and provide efficient customer service within the automotive service and repair industry. The student may take the ASE exams in these areas when they have completed the requirements for these tests.

Note: Hours Exception (69-72 for the A.A.S. and 61-64 for the Diploma) approved by the KCTCS Board of Regents in March 2011

### Associate in Applied Science

#### Automotive Technology - 4706047019

(Offered at BLC, BSC, ELC, HZC, JFC, OWC, SKY, WKC)

#### **General Education:**

General Education Total Credit Hours:	15
Written Communication	3
Heritage/ Humanities	3
Social/Behavioral Sciences	3
Natural Sciences	3
Quantitative Reasoning	3

#### **Technical Core:**

		Computer/Digital Literacy course OR
		demonstrated competency
ADX	120	Basic Automotive Electricity
ADX	150	Engine Repair
ADX	170	Climate Control
ADX	260	Electrical Systems
AUT	110	Brake Systems
AUT	130	Manual Transmissions
AUT	140	Basic Fuel and Ignition Systems
AUT	142	Emission Systems
AUT	160	Suspension and Steering
AUT	180	Automatic Transmission/Transaxle
AUT	240	Computer Control Systems and Diagnosis
		Total Technical core credits 33-36

### Automotive Technician Track - 470604701 (Offered at BLC, BSC, ELC, HZC, IFC, OWC, SKY,WKC)

ADX	121	Basic Automotive Electricity Lab	2
ADX	151	Engine Repair Lab	
ADX	171	Climate Control Lab	
ADX	261	Electrical Systems Lab	2
AUT	111	Brake Systems Lab	2
AUT	131	Manual Transmissions Lab	2
AUT	141	Basic Fuel and Ignition Systems Lab	2
AUT	143	Emission Systems Lab	2
AUT	161	Suspension and Steering Lab	2
AUT	181	Automatic Transmission/Transaxle Lab	2
AUT	241	Computer Control Systems and Diagnosis Lab	2
		Subtotal Credits:	21
		Total Credits:	69-72

#### Automotive Parts/Service Writer Track - 470604702

		(Offered at JFC, OWC)	
ISX	100	Industrial Safety	3
TQX	110	Total Quality Management	3
B&E	100	Introduction to Business and Economics	1
ACT	101	Fundamentals of Accounting I	3
TEC	100	Communication for Business and Industry OR	3
CMS	152	Writing for Business and Industry	3
		Subtotal Credits:	13
		Total Credits:	61-64

#### Diploma

#### Automotive Technician - 4706044019

(Offered at ASC, BLC, ELC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)

#### **General Education:**

Area 1=Written Communication, Oral Communications, or	
Humanities/Heritage	3
Area 2= Social/Behavioral Sciences, Natural Sciences	
or Quantitative Reasoning	3
General Education Total Credit Hours 6	5

#### **Technical Core:**

	Computer/Digital Literacy course OR	
	demonstrated competency	0-3
ADX 120	Basic Automotive Electricity	
ADX 121	Basic Automotive Electricity Lab	2
ADX 150	Engine Repair	3
ADX 151	Engine Repair Lab	2
ADX 170	Climate Control	3
ADX 171	Climate Control Lab	
ADX 260	Electrical Systems	3
ADX 261	Electrical Systems Lab	2
AUT 110	Brake Systems	
AUT 111	Brake Systems Lab	2
AUT 130	Manual Transmissions	3
AUT 131	Manual Transmissions Lab	2
AUT 140	Basic Fuel and Ignition Systems	3
AUT 141	Basic Fuel and Ignition Systems Lab	2
AUT 142	Emission Systems	
AUT 143	Emission Systems Lab	2
AUT 160	Suspension and Steering	3
AUT 161	Suspension and Steering Lab	
AUT 180	Automatic Transmission/Transaxle	3
AUT 181	Automatic Transmission/Transaxle Lab	2
AUT 240	Computer Control Systems and Diagnosis	3
AUT 241	Computer Control Systems and Diagnosis	
	Any approved work experience component	
	Subtotal Credits:	55-58
	Total Credits:	61-64

#### Automotive Parts/Service Writer - 4706044029

(Offered at JFC, OWC)

#### General Education:

Area 1= Written Communication, Oral Communications, or Humanities/	
Heritage	. 3
Area 2= Social/Behavioral Sciences, Natural Sciences or Quantitative	
Reasoning	. 3
General Education Total Credit Hours	6

#### **Technical or Support Courses:**

		Computer/Digital Literacy course OR
		demonstrated competency 0-3
ADX	120	Basic Automotive Electricity
ADX	150	Engine Repair3
ADX	170	Climate Control
ADX	260	Electrical Systems

AUT	110	Brake Systems				Front End Mechanic - 4706043099
AUT	130	Manual Transmissions	3	(Offe	ered at AS	SC, BLC, BSC, ELC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC,
AUT	140	Basic Fuel and Ignition Systems		. 20		WKC)
AUT	142	Emission Systems		AUT	160	Suspension and Steering
AUT AUT	160 180	Suspension and Steering Automatic Transmission/Transaxle .		AUT	161	Suspension and Steering Lab
AUT	240	Computer Control Systems and Dia				Total Credits 5
ISX	100	Industrial Safety				
TQX	110	Total Quality Management				Tune un Mochania 4700042100
B&E	100	Introduction to Business and Econor				Tune-up Mechanic - 4706043109
TEC	100	Communication for Business and In-		(Off	ered at AS	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,
CMS	152	Writing for Business and Industry				SMC,WKC)
ACT	101	Fundamentals of Accounting I		ADX	120	Basic Automotive Electricity
Any ap	proved w	ork experience component		ADX	121	Basic Automotive Electricity Lab
, 1	1	Technical or Support Courses		ADX	260	Electrical Systems
		<b>Total Credit Hours:</b>	47-50 credits	ADX	261	Electrical Systems Lab
		Total Credits:	53-56 credits	AUT	140	Basic Fuel and Ignition Systems
		iotai Credits:	55-56 Credits	AUT AUT	141 142	Basic Fuel and Ignition Systems Lab
		Cortificates		AUT	143	Emissions Systems
		Certificates		AUT	240	Computer Control Systems and Diagnosis
				AUT	241	Computer Control Systems and Diagnosis Lab
	Auto	omotive Air Conditioning Mechanic	- 4706043019	nai	211	Total Credits 25
(Offe		C, BLC, BSC, ELC, GTW, HZC, JFC, MY				Total Credits 23
· 30		WKC)				
ADX	170	Climate Control	3		Λvi	ation Maintenance Technology
ADX	171	Climate Control Lab			LA I	ation maintenance recimology
		Total Credits	4	_		
						he inspection, repair, service and overhaul of aircraft and
		Automotive Electrician - 47060	13030			goal of this program certified by the Federal Aviation
(O.C.	1 10					). Interpreting specifications from service and technical
(Offe	ered at AS	C, BLC, BSC, ELC, GTW, HPC, HZC, JF	C, MYC, OWC, SEC, SKY,			g testing procedures and equipment, diagnosing problems
	120	SMC,WKC)				ecessary repairs are the skills taught in aircraft maintenance.
ADX	120	Basic Automotive Electricity AND		To wo	ork in the	e aircraft industry, the FAA must certify students complet-
ADX	121	Basic Automotive Electricity Lab		ing th	is progra	am.
ADX	260	Electrical Systems				
ADX	261	Electrical Systems Lab  Total Credits	10			lled in the Aviation Maintenance Technology program must
		iotai Credits	10	achiev	ve a mini	imum grade of "C" in each course.
	И	T T	4700040000	C	4 1:4.	
		l Transmission/Drive Train Technici				eracy must be demonstrated either by competency exam or
(Offe	ered at AS	C, BLC, BSC, ELC, GTW, HZC, JFC, MY	'C, OWC, SEC, SKY, SMC,	by co	mpieting	g a computer literacy course.
		WKC)		Note:	Hours Exc	ception (75-76 for the A.A.S. and 66-67 for the diploma) approved by the
AUT	130	Manual Transmissions				Regents in June 2011.
AUT	131	Manual Transmissions Lab				
		Total Credits	5			Associate in Applied Science
						• •
	Automa	tic Transmission/Transaxle Technic	ian - 4706043079		F	lviation Maintenance Technology – 4706087029
(Offe		C, BLC, BSC, ELC, GTW, HZC, JFC, MY				(Offered at JFC, SMC)
( 3)		WKC)	-, - · · · , - · · , - · · , - · · ,	Gene	ral Edi	ication:
AUT	180	Automatic Transmission/Transaxle.	3	ENG	101	Writing I
AUT	181	Automatic Transmission/Transaxle			~ -	Quantitative Reasoning
		Total Credits	5			Natural Sciences
						Heritage/Humanities
		Droke Denoises 47000420	n.			Social/Behavioral Sciences
		Brake Repairer- 47060430				Subtotal 15
(Offe	ered at AS	C, BLC, BSC, ELC, GTW, HPC, HZC, JF	C, MYC, OWC, SEC, SKY,	ATE	100	A:
		SMC,WKC)		ATE	100	Aviation Math
AUT	110	Brake Systems		ATE ATE	102 104	Introduction to Aviation Maintenance Technology I 3 Introduction to Aviation Maintenance Technology II 3
AUT	111	Brake Systems Lab		ATE	104	C,
		Total Credits	5	ATE	108	Introduction to Aviation Maintenance Technology III
				ATE	202	Aircraft Structures I
		Engine Repairer - 47060430	189	ATE	204	Aircraft Structures II
(Off	ored at AC	C, BLC, BSC, ELC, GTW, HPC, HZC, JF		ATE	206	Aircraft Structures III
(Offe	nou ut 113	c, blc, bsc, elc, GTW, TH c, H2c, J1 SMC,WKC)	o, mio, on o, seo, ski,	ATE	208	Aircraft Structures IV
ADX	150	Engine Repair	2	ATE	222	Aircraft Systems I
ADX	151	Engine Repairer		ATE	224	Aircraft Systems II
пра	1 J 1	Total Credits	Z	ATE	226	Aircraft Systems III
		-544 0104169	3	ATE	228	Aircraft Systems IV
				ATE	242	Aircraft Powerplants I

ATE	244	Aircraft Powerplants II			Aviation Electronics – 4706083089
ATE	246	Aircraft Powerplants III			(Offered at JFC, SMC)
ATE	248	Aircraft Powerplants IV	ATE	292	Aviation Electronics
ATE	252	Aircraft Powerplant Systems I	ATE	293	GROL+Radar Exam Prep
ATE	254	Aircraft Powerplant Systems II	711 L	273	Total Credits 6
ATE	256	Aircraft Powerplant Systems III			Total Cicalis
ATE	258	Aircraft Powerplant Systems IV		Po	ower Plant Maintenance Technician - 4706083079
					(Offered at JFC, SMC)
NOTE	: Compute	r/digital literacy must be demonstrated either by competency exam or by	ATE	100	Aviation Math
comple	ting a con	nputer/digital literacy course.	ATE	102	Introduction to Aviation Maintenance Technology I 3
		<i>Diploma</i>	ATE	104	Introduction to Aviation Maintenance Technology II 3
		υιμισιπα	ATE	106	Introduction to Aviation Maintenance Technology III 3
Δ	irframe	and Power Plant Maintenance Technician - 4706084049	ATE	108	Introduction to Aviation Maintenance Technology IV 3
	ii ii aiiio		ATE	242	Aircraft Powerplants I
		(Offered at JFC, SMC)	ATE	244	Aircraft Powerplants II
Gene	ral Edu	ication: 6 credit hour requirement for diploma	ATE	246	Aircraft Powerplants III
Area 1	=	Written Communication, Oral Communications, or	ATE	248	Aircraft Powerplants IV
		Humanities/Heritage 3	ATE ATE	252 254	Aircraft Powerplant Systems I
Area 2	! =	Social/Behavioral Sciences, Natural Sciences, or	ATE	256	Aircraft Powerplant Systems II
		Quantitative Reasoning	ATE	258	Aircraft Powerplant Systems III
		Subtotal 6	ALL	230	Total Credits 37
ATE	100	Aviation Math			Total cicuits 37
ATE	102	Introduction to Aviation Maintenance Technology I			er literacy must be demonstrated either by competency exam or by
ATE	104	Introduction to Aviation Maintenance Technology II	comple	ting a cor	nputer literacy course.
ATE	106	Introduction to Aviation Maintenance Technology III 3			B
ATE	108	Introduction to Aviation Maintenance Technology IV 3			Biotechnology
ATE	202	Aircraft Structures I			Diotocilliology
ATE	204	Aircraft Structures II	- Terl 1		1 1 1 11 11
ATE	206	Aircraft Structures III			ology program provides students with the necessary skills
ATE	208	Aircraft Structures IV			ge for entry into a biotechnology career. Graduates will be
ATE	222	Aircraft Systems I			n the theories and principles of biological systems, field and
ATE	224	Aircraft Systems II	labora	tory ted	chniques, and good manufacturing principles of the biotech-
ATE	226	Aircraft Systems III	nolog	y indust	ry. The industry provides a wide array of job opportunities,
ATE	228	Aircraft Systems IV	includ	ling bio-	-manufacturing and laboratory technicians, quality assur-
ATE	242	Aircraft Powerplants I			ans, and regulatory personnel.
ATE	244	Aircraft Powerplants II			
ATE	246	Aircraft Powerplants III			Associate in Applied Science
ATE	248	Aircraft Powerplants IV			• •
ATE	252	Aircraft Powerplant Systems I			Biotechnology - 4101017019
ATE	254	Aircraft Powerplant Systems II			(Offered at OWC)
ATE	256	Aircraft Powerplant Systems III	ENG	101	Writing I
ATE	258	Aircraft Powerplant Systems IV	COM	181	Basic Public Speaking
		Total Credits 67	MAT	150	College Algebra
NOTE	Compute	er/Digital literacy must be demonstrated either by competency exam or	PHI	110	Medical Ethics
	•	computer/digital literacy course.			Social/Behavioral Sciences
,	1 0	O antificatos			Subtotal 15
		Certificates	CIT	105	Introduction to Computers
			BIO	143	Zoology with Laboratory OR4
	A	irframe Maintenance Technician - 4706083069	BIO	150	Principles of Biology I AND(3)
		(Offered at JFC, SMC)	BIO	151	Principles of Biology I Lab(2)
ATE	100	Aviation Math	BIO	141	Botany with Laboratory OR4
ATE	102	Introduction to Aviation Maintenance Technology I 3	BIO	152	Principles of Biology II AND(3)
ATE	104	Introduction to Aviation Maintenance Technology II 3	BIO	153	Principles of Biology II Lab(2)
ATE	106	Introduction to Aviation Maintenance Technology III 3	BIO	227	Principles of Microbiology with Laboratory
ATE	108	Introduction to Aviation Maintenance Technology IV 3	BIO	224	Introduction to Molecular and Cell Biology
ATE	202	Aircraft Structures I	BTN	101	Introduction to Biotechnology
ATE	204	Aircraft Structures II	AGR	250	Introduction to Plants/Crop Production
ATE	206	Aircraft Structures III	CHE	170	General College Chemistry I
ATE	208	Aircraft Structures IV	CHE	173	General College Chemistry I Workshop
ATE	222	Aircraft Systems I	CHE	175	General College Chemistry I Lab
ATE	224	Aircraft Systems II	CHE	180	General College Chemistry II
ATE	226	Aircraft Systems III	CHE	183 185	General College Chemistry II Workshop
ATE	228	Aircraft Systems IV	CHE BTN	201	Biotechnology Techniques I
		Total Credits 37	BTN	201	Biotechnology Techniques II
NOTE	Comput	r literacy must be demonstrated either by competency exam or by	BTN	220	Immunological Methods
		nputer literacy course.	2		Elective
comple	8 " COII				Subtotal 49-51

Subtotal Total Credits

64-66

### **Biotechnology Laboratory Technician**

The Biotechnology Laboratory Technician AAS program provides the basic knowledge and laboratory skills needed to prepare for entry-level jobs in university, government, pharmaceutical, or industrial biotechnology laboratories. Graduates of the program will be able to seek employment in biotechnology laboratories such as biomanufacturing, quality control, quality assurance, research and development, and regulatory bioscience. The program has been designed to develop skills in basic analysis of biological molecules (DNA and proteins), use of bioreactors, recombinant DNA technology, generation of cell cultures, immunological method applications, regulatory compliance (GMPs and GLPs), accurate documentation, and laboratory safety skills. Some courses are dual credit and college credit can be earned while students are enrolled in secondary school.

The Biotechnology Laboratory Assistant certificate provides basic training and personal support to prepare students for certificates and degrees in Biotechnology or entry level employment in bioscience laboratories. The program is intended for students with little or no background in science, although the program is open to all students. Students enroll in three integrated courses as a cohort, BTN 100, BTN 103, and BTN 104.

The Basic Biotechnician certificate introduces hands-on laboratory training needed for entry-level employment in a biotechnological laboratory.

The Advanced Biotechnician certificate provides practical laboratory skills to supplement theoretical knowledge gained from previous coursework, to improve employability in the biotechnology industry.

The Bioinformatics certificate introduces interdisciplinary curriculum to gain skills required to seek employment at an entry level in performing data acquisition, management, and analysis in laboratory environments. The certificate program can also benefit working professionals seeking to advance or change their careers. Students will learn basic programming, concepts of molecular biology, and use of bioinformatics applications and resources. Emphasis will be placed on the skills required to become creative and flexible team members and leaders who can work with others in the dynamic interdisciplinary team environment found in today's biotechnology companies. The Bioinformatics certificate is a joint credential within the Biotechnology Laboratory Technician and Computer Information Technologies areas.

The Environmental Biotechnician certificate provides hands-on training using an interdisciplinary approach of integrating applied biotechnology to study the natural environment. Green technologies, sustainability, biodegradation, and bioremediation will be explored. Students will collect water, air, and soil samples and conduct experiments related to the detection and monitoring of environmental pollutants. The use of biotechnology laboratory methods, system's biology, and bioinformatics will be emphasized. Students who complete the curriculum satisfactorily are qualified for entry level positions in laboratories or field research companies, including federal, state, or local agencies, university or privately owned biotechnology research labs, or nature resource management organizations. The Environmental Biotechnician Certificate requires successful completion of 21 hours of coursework, which may be earned in 2 semesters, provided all the prerequisites have been met for the required coursework. This is a joint certificate in the Biotechnology Laboratory Technician and Environmental Science Technician programs.

#### Associate in Applied Science

#### Biotechnology Laboratory Technician – 4101017029

(Offered at BLC)

#### **Required General Education Courses**

Subtotal: General Education Requirements	16-17
Written Communication	3
Quantitative Reasoning <sup>2</sup>	3
Natural Sciences with Laboratory <sup>1</sup>	4 – 5
Social/ Behavioral Sciences	3
Heritage/Humanities	3

<sup>&</sup>lt;sup>1</sup> Science requirement may be satisfied by:

- -One semester of college biology with lab, or
- -One semester of college chemistry with lab, or
- -Course approved by the program coordinator.

#### Required Technical Core Courses

BTN	101	Introduction to Biotechnology	1
BTN	105	Applied Biotechnology Laboratory Calculations	3
BTN	201	Biotechnology Techniques I	4
BTN	202	Biotechnology Techniques II	4
		Digital Literacy <sup>3</sup>	
		Subtotal: Technical Core Requirements	12-1

<sup>&</sup>lt;sup>3</sup>Digital literacy must be demonstrated either by competency exam or by successfully completing a digital literacy course.

#### **Required Technical Elective Courses**

Choose at least 28 credit hours:

BTN	106	Fundamentals of Scientific Communication	3
BTN	110	Nucleic Acids	4
BTN	115	Biomanufacturing	4
BTN	120	Biofuels	
BTN	125	Bioinformatics I	2
BTN	126	Bioinformatics II	2
BTN	160	Introduction to Agricultural Biotechnology	4
BTN	210	Cell Culture and Function	
BTN	220	Immunological Methods	4
BTN	225	Protein Bioseparation Methods	4
BTN	295	Independent Investigation in Biotechnology4 OR	1-3
BTN	298	Biotechnology Learning Laboratory4 OR	
COE	199	Cooperative Education <sup>4</sup>	
		Or course approved by the program coordinator	. ,
		Subtotal: Technical Elective Courses	28

\*Students are strongly encouraged to gain hands-on experience by enrolling in BTN 295, BTN 298 or COE 199, to reinforce technical skills learned in the classroom.

#### **Technical Support Courses**

Choose at least 4 credit hours within Natural Sciences and Mathematics, usually courses with prefixes ANA, BIO, BTN, CHE, EST, GLY, MA, MAT, PGY, PHY, STA or any course approved by the program coordinator. BTN courses not used to satisfy Technical Electives may be used to satisfy Technical Support.

Subtotal: Technical Support Courses	4
Total	60 - 64

<sup>&</sup>lt;sup>2</sup>Assessment score above the KCTCS transitional course placement level or completion of transitional courses (courses numbered 001-099).

#### Certificate

		ou tinoato
	Biotech	nology Laboratory Assistant Certificate - 4101013040 (Offered at BLC)
BTN	100	Contextual Science with Laboratory54
BTN	103	Contextual Laboratory Language5
BTN	104	Contextual Laboratory Calculations 5
BTN	101	Introduction to Biotechnology
BTN	106	Fundamentals of Scientific Communications
		Digital Literacy Course
		Total 17
5BTN	100, BT	N 103, and BTN 104 must be taken as a cohort.
		Basic Biotechnician Certificate - 4101013020
		(Offered at BLC)
BTN	101	Introduction to Biotechnology 1
BTN	105	Applied Biotechnology Laboratory Calculations
BTN	201	Biotechnology Techniques I
BTN	202	Biotechnology Techniques II
		Science <sup>6</sup>
		Total 16-17
	-	ment may be satisfied by:
-Comp	letion of tl	ne Biotechnology Laboratory Assistant Certificate, or
-Comp	letion of B	TN 100, BTN 103, and BTN 104 or cohort with a "C" or better, or
-One se	emester of	college biology with lab, or
-One se	emester of	college chemistry with lab, or
-Course	e approved	l by the program coordinator.
	Ac	Ivanced Biotechnician Certificate - 4101013050 (Offered at BLC)
BTN	101	Introduction to Biotechnology
BTN	105	Applied Biotechnology Laboratory Calculations
BTN	201	Biotechnology Techniques I
BTN	202	Biotechnology Techniques II
		redits from the following:
BTN	106	Fundamentals of Scientific Communication
BTN	110	Nucleic Acids
BTN	115	Biomanufacturing
BTN	120	Biofuels 4
BTN	125	Bioinformatics I
BTN BTN	126 160	Bioinformatics II
BTN	210	Introduction to Agricultural Biotechnology 4 Cell Culture and Function
BTN	220	Immunological Methods 4
BTN	225	Protein Bioseparation Methods. 4
אוום	449	1 Totem Dioseparation Methods

 $^7$  Students are strongly encouraged to gain hands-on experience by enrolling in BTN 295, BTN 298 or COE 199, to reinforce technical skills learned in the classroom.

Independent Investigation in Biotechnology<sup>7</sup> OR ...... 1-3

Biotechnology Learning Laboratory 7 OR..... (1-8)

Cooperative Education<sup>7</sup>.....(1-3)

Or course approved by the program coordinator......(4-5)

#### Prerequisites:

BTN

COE

295

298

199

- At least one semester of college level chemistry and college level biology, with an earned associate's degree or higher.
- $\bullet$  Or consent of program coordinator

Total

#### Bioinformatics Certificate - 4101013060

BTN	101	Introduction to Biotechnology
BTN	105	Applied Biotechnology Laboratory Calculations
BTN	125	Bioinformatics I
BTN	126	Bioinformatics II
BTN	201	Biotechnology Techniques I
BTN	202	Biotechnology Techniques II
CIT	149	Java I OR
CS	115	Introduction to Computer Programming OR(3)
INF	120	Elementary Programming(3)
CIT	170	Database Design Fundamentals OR
INF	282	Introduction to Databases(3)
CIT	249	Java II OR3
CS	215	Introduction to Program Design, Abstraction, and Problem (4)
		Solving OR
INF	260	Object Oriented Programming I AND(3)
INF	260L	Object Oriented Programming I Laboratory(1)
CIT	155	Web Page Development OR
IMD	133	Beginning Web Design OR(3)
INF	286	Introduction to Web Development(3)
		Total 28-29

#### Environmental Biotechnician Certificate - 4101013070

BTN	101	Introduction to Biotechnology	1
BTN	201	Biotechnology Techniques I	4
BTN	202	Biotechnology Techniques II	4
CHE	170	General College Chemistry I	
CHE	175	General College Chemistry Laboratory I	
EST	150	Introductory Ecology	
EST	170	Environmental Sampling Laboratory	2
EST	260	Environmental Methods and Analysis Lab	
		Total	21

### **Broadcast Television Production**

The Broadcast Television Production Certificate program provides students with a hands-on introduction to the practice of video production and a comprehensive understanding of professional broadcasting in the United States. The students will be required to read, write, and reflect about concepts such as the role of the media in our society, history of broadcasting in the United States, and different job positions available in the field of broadcasting. Students will also learn all aspects of the television production process from conception to the completed program. Students will develop skills in a range of areas including script preparation, camera operation, directing, lighting, and editing. In addition to an understanding of the elements of television production, graduates will have a greater understanding of the collaborative process through creative problem solving, and critical thinking. Students will need to achieve a "C" or better in each class to remain in the program.

#### Certificate

#### Broadcast Television Production – 1001053189

(Offered at MYC, OWC)

CMS	105	Multi-Media Production I	3
CMS	141	Communications Practicum	
CMS	155	Introduction to Broadcasting	3
CMS	266	Basic Television Production	3
COM	249	Mass Media and Mass Culture	3
		Total 10	6

### **Business Studies**

Three programs are offered under the broader heading of Business Studies. They are Business Administration Systems, Medical Information Technology, and Office Systems Technology.

### **Business Administration Systems**

The Business Administration Systems Program prepares students for a variety of careers in business. A core curriculum provides students with a foundation of knowledge applicable to any business career. The Business Administration Systems Program offers an Associate in Applied Science degree, diplomas and a variety of certificates in the areas of Accounting, Entrepreneurship, Finance, Financial Perspectives, General Business, Hospitality Management, Human Resource Management, Industrial Supervisor, Informatics, Leadership, Management, Office Systems, Operations Management, Real Estate Management, Sales, Small Business Management, Team Leadership, Telecommunications Systems Management and Turf Grass / Landscaping Management.

The curriculum is designed for those who seek entry level jobs as well as for currently employed individuals wishing to enhance their skills. A student specializes by choosing from the following Tracks, Diplomas and Certificates:

The Accounting Track/Diploma/Certificate leads to careers in accounting including bookkeeper, accounting clerk, cost payroll clerk and any positions using microcomputer-based systems.

The Finance Track/Certificate leads to careers in the financial services industry, government lending agencies, and credit companies.

The Hospitality Management Track/Certificate prepares students for careers directing specific aspects of hospitality operations and for overall hospitality management.

The Human Resource Management Track/Certificate prepares students for entry-level positions in the human resource field and related occupations.

The Informatics Track/Diploma/Certificate prepares students for careers in business including Business Analysts and positions that query and report on the business's key performance indicators and success factors.

The Management Track/Certificate prepares the student with broad-based management knowledge and skills which lead to a variety of positions in organizations.

The Office Systems Track/Diploma/Certificate prepares the student with a broad base of knowledge and skills needed for a variety of positions in an office.

The Real Estate Management Track/Certificates leads to a career in real estate which may include sales, finance, counseling, development, marketing analysis, valuation, and/or property management.

The Telecommunication Systems Management Track/Certificate leads to careers in the management and operation of television, radio, teleconferencing facilities, and information systems.

The Turf Grass / Landscaping Management Track/Certificate prepares the student for careers turf grass management and landscaping operations.

#### Other Diplomas and Certificates

The Organization Leadership Diploma curriculum is designed to prepare students to manage a department or to become team leaders in teambased or self-managed organizations.

The Small Business Management Diploma/Certificate curricula is designed to prepare students for the position of entrepreneur and business owner and offers the prospective business owner the fundamentals of starting and operating a business.

The Accounting Recordkeeping Specialist Certificate prepares students for entry level employment as a bookkeeper.

The Basic and Advanced Business Administration Certificates are designed to be building blocks to complete the Associate in Applied Science Degree, Business Administration Core courses.

The Business Transfer Certificate is designed to provide the business transfer student an exit point by offering business preparation courses that will transfer to a four year institution.

The Entrepreneurship Certificate is focused on providing foundational business knowledge necessary to turn a project, idea, product or service into a business venture. Certificate graduates will learn how to prepare a business plan, identify sources of venture and operating capital, gain product development knowledge, learn methods of marketing their idea or business, learn how to read and understand financial statements, and gain personal and organization leadership qualities that will provide business tools to new or current entrepreneurs.

The Financial Perspectives Certificate prepares the student for entry level positions in accounting, financial services and small business management.

The Industrial Supervisor Certificate prepares the students in the field of industrial front-line supervision

The General Business Certificate prepares the students for a variety positions in supervision, management and general business.

The Leadership Certificate enables the student to qualify for leadership positions, work effectively in teams, lead problem solving work groups, understand the conflict resolution processes and plan effectively.

The Operations Management Certificate provides students with the knowledge and skills needed to effectively function as first-line supervisors in an operations environment whether in distribution, services, or manufacturing. Also it will increase the understanding of the operations function for non-operations students who will be working in a distribution, services or manufacturing organization.

The Payroll Accounting Specialist Certificate prepares the student for entry level work in payroll processing.

The Quality Management Certificate prepares the student to analyze and implement systems for continuous improvement of functions and processes in production or service organizations.

The Sales Certificate prepares the student for a career in sales.

The Supervisory Management Certificate prepares the students in the field of front-line supervision.

The Team Leadership Certificate leads to a career in team leadership, supervision and / or management in a variety of different organizations. Modules are available.

### Associate in Applied Science

		Associate in Applied Science			Fillalice Ifack - 320201714	
		Ousiness Administration Contours E000017100			(Offered at ASC, HPC, SEC, SMC,WKC)	
		Business Administration Systems - 5202017129	Requ	iired:		
(Offer	ed at ASO	C, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	BAS	293	Principles of Finance	
		SKY, $SMC$ , $WKC$ )	BAS	212	Introduction to Financial Management	3
Gene	ral Edu	ication:	Choo	se 9 ho	ours (not duplicated from the core) from the	
ENG	101	Writing I	follo	wing Te	echnical Courses. Students may select other	
COM	181	Basic Public Speaking OR			pproved by the Business Administration Syster	ms
COM	252	Introduction to Interpersonal Communication(3)			oordinator.	
ECO	101	Contemporary Economic Issues OR	BAS	120	Personal Finance	3
ECO	201	Principles of Microeconomics OR(3)	BAS	294	Money and Financial Institutions	3
ECO	202	Principles of Macroeconomics(3)	BAS	295	International Finance	3
MAT	105	Business Mathematics OR	BAS	299	Selected Topics in Management: (Track Topic)	
MAT	110	Applied Mathematics OR Higher Quantitative Reasoning (3)	BAS	280	Business Internship OR	
		Heritage/Humanities	COE	199	Cooperative Education	(1-4)
		Natural Sciences			Subtotal	15
		Subtotal 18			Total Credit Hours	61-64
Techi	nical Co	ourses:				
CIT	105	Introduction to Computers OR			Hospitality Management Track - 520201703	
OST	105	Introduction to Computers OK			. , .	
ENG	102	Writing II OR			(Offered at BSC, SMC,WKC)	
OST	235	Business Communications Technology(3)	Requ	iired:		
CIT	130	Productivity Software OR	HOS	100	Introduction to Hospitality	3
OST	240	Software Integration(3)	CUL	100	Culinary Arts Profession.	2
BAS	160	Introduction to Business	HOS	282	Tourism Marketing	
BAS	250	Business Employability Seminar	Choc	se 9 ho	ours (not duplicated from the core) from the	
BAS	267	Introduction to Business Law			echnical Courses. Students may select other	
BAS	282	Principles of Marketing				
BAS	283	Principles of Management			OS, CUL, & BAS) as approved by the Business	
ACC	201	Financial Accounting OR			tion Systems Program Coordinator.	2
ACT	101	Fundamentals of Accounting I AND(3)	BAS	200	Small Business Management	3
ACT	102	Fundamentals of Accounting II(3)	BAS	274	Human Resource Management	3
100	202	Managerial Accounting	BAS COE	290	Management, Ethics & Society	
ACC			COE	199	Cooperative Education: Business Administration OR	
ACC		Technical 28-31		200	D	(1 2)
ACC			BAS	280	Business Internship	
ACC		Technical 28-31 Core Subtotal 46-49	BAS CUL	200	Sanitation & Safety	2
ACC			BAS CUL CUL	200 105	Sanitation & Safety Applied Fundamental of the Culinary Arts Profession	2 2
ACC		Core Subtotal 46-49	BAS CUL CUL CUL	200 105 280	Sanitation & Safety	2 2 3
ACC			BAS CUL CUL CUL HOS	200 105 280 160	Sanitation & Safety	2 3 3
ACC		Core Subtotal 46-49  Business Administration Systems Tracks	BAS CUL CUL CUL HOS HOS	200 105 280 160 200	Sanitation & Safety	2 3 3
	od at ASC	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701	BAS CUL CUL CUL HOS HOS	200 105 280 160 200 210	Sanitation & Safety	2 3 3 3
	ed at ASC	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220	Sanitation & Safety	2 3 3 3 3
	ed at ASC	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701	BAS CUL CUL CUL HOS HOS	200 105 280 160 200 210	Sanitation & Safety	2 3 3 3 3 3
(Offero	ired:	Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offere	<b>ired:</b> 279	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220	Sanitation & Safety	2 3 3 3 3 3
(Offerd Requ ACT ACT	ired: 279 281	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offered) Required ACT	<b>ired:</b> 279	Core Subtotal 46-49  Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offerd Requ ACT ACT ACT	ired: 279 281 286	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offerd Requ ACT ACT ACT Choo	ired: 279 281 286 se 6 ho	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUL CUL CUL HOS HOS HOS	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offerd Requ ACT ACT ACT Choo follow	ired: 279 281 286 se 6 ho wing Te	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUIL CUIL HOS HOS HOS CUIL	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offerd Requ ACT ACT ACT Choo follow	ired: 279 281 286 se 6 ho wing Te	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUIL CUIL HOS HOS HOS CUIL	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3
(Offerd Requ ACT ACT ACT Choo follow	ired: 279 281 286 se 6 ho wing Te	Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	BAS CUIL CUIL HOS HOS HOS CUIL	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3
Requestre ACT ACT Choo follow cours Program	ired: 279 281 286 se 6 ho wing Te ses as aj	Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests Bass Bass	200 105 280 160 200 210 220 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
(Offered Required ACT ACT ACT Choo follow course Progra	ired: 279 281 286 se 6 howing Teses as aperam Co	Business Administration Systems Tracks  Accounting Track - 520201701  S., BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT	200 105 280 160 200 210 220 270 270	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
Requestre ACT ACT Choo follow cours Programmer ACT ACT	ired: 279 281 286 se 6 ho ving Te ses as a ram Co 196 277	Business Administration Systems Tracks  Accounting Track - 520201701  E. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT	200 105 280 160 200 210 220 270 H	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3
Requestre ACT ACT Choo follow Cours Program ACT ACT ACT BAS	ired: 279 281 286 se 6 ho wing Te es as ap ram Co 196 277 212	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choof follows	200 105 280 160 200 210 220 270 H hired: 274 287 196 ose 9 howing A	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3
Requestre ACT ACT Choo follow Cours Program ACT ACT BAS ACT	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290	Business Administration Systems Tracks  Accounting Track - 520201701  E. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows	200 105 280 160 200 210 220 270 H sired: 274 287 196 ose 9 howing A 280	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requestre ACT ACT Choo follow Cours Program ACT ACT BAS ACT ACT	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows	200 105 280 160 200 210 220 270 270 H tired: 274 287 196 ose 9 ho wing A 280 199	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3
(Offered ACT ACT ACT Choo follow ACT ACT BAS ACT ACT BAS	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows BAS COE BAS	200 105 280 160 200 210 220 270 H sired: 274 287 196 ose 9 ho wing A 280 199 284	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3
(Offered ACT ACT ACT Choo follow ACT ACT BAS ACT ACT BAS CIT	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows BAS COE BAS BAS	200 105 280 160 200 210 220 270 270 H tired: 274 287 196 ose 9 ho wing A 280 199 284 288	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows BAS	200 105 280 160 200 210 220 270 270 H tired: 274 287 196 ose 9 ho wing A 280 199 284 288 290	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follows BAS	200 105 280 160 200 210 220 270 H sired: 274 287 196 ose 9 ho wing A 280 199 284 288 290 299	Sanitation & Safety	2 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requestion BAS CULL CULL HOS HOS HOS CULL  Requestion BAS BAS ACT Choc follor BAS COE BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 ose 9 ho wing A 280 199 284 288 290 299 100	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requestion BAS CUIL CUIL HOS HOS HOS CUIL BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 ose 9 ho wing A 280 199 284 288 290 299 100 275	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follor BAS COE BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 280 199 284 288 290 299 100 275 101	Sanitation & Safety	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requestion BAS CUIL CUIL CUIL HOS HOS HOS CUIL BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 280 199 284 288 290 299 100 275 101 202	Sanitation & Safety	2 3
(Offerd Required ACT ACT Choof follow course Program ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requests BAS ACT Choc follor BAS COE BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 280 199 284 288 290 299 100 275 101	Sanitation & Safety	2 3
(Offerd Requ ACT ACT Choo follow course Progn ACT ACT BAS ACT ACT BAS CIT CIT COE	ired: 279 281 286 se 6 ho wing Te ses as ap ram Co 196 277 212 290 295 120 234 236 199	Business Administration Systems Tracks  Accounting Track - 520201701  S. BSC, ELC, GTW, HEC, HPC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Computerized Accounting Systems	Requestion BAS CUIL CUIL CUIL HOS HOS HOS CUIL BAS	200 105 280 160 200 210 220 270  H  tired: 274 287 196 280 199 284 288 290 299 100 275 101 202	Sanitation & Safety	2 3

Finance Track - 520201714

		Informatics Track - 520201716 (Offered at SMC)	CIT CIT OST	155 232 110	Web Page Development	3
Requ	ired:		QMS	101	Introduction to Quality Systems	
IFM	128	Principles of Informatics	QMS	201	Customer Service Improvement Skills	
CIT	120	Computational Thinking			Subtotal 17-1	
CIT	170	Database Design Fundamentals			T + 1 C - 1'-	_
IFM	215	Information Systems Analysis			Total Credit 63-6	/
		urs from the following Technical Courses. y select other courses (CIT & BAS)			Office Systems Track - 520201705	
as app	proved	by the Business Administration Systems Program		(Offer	ed at BSC, GTW, HEC, HZC, MDC, MYC, SMC,WKC)	
Coore	dinator				Available Completely Online	
IFM	130	Business Data Communication	Requ	ired:		
IFM	235	Information Systems and Business Intelligence	OST	110	Document Formatting and Word Processing	
MGT	258	Project Management	OST	210	Advanced Word Processing Applications	
IFM IFM	111 225	Client-Side Informatics Software 3 Advanced Informatics 3	OST OST	215 220	Office Procedures	
IFM	211	Collaboration Software				J
		Subtotal 18			ers (not duplicated from the core) from the	
					chnical Courses. Students may select other	
		Total Credits 64-67			proved by the Office Systems Program	
				dinator.		2
		Management Track - 520201708	OST	150	Transcription and Office Technology	
(Offer	ed at ASC	, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	OST OST	160 216	Records and Database Management	
(3)		SKY, SMC,WKC)	OST	235	Business Communications Technology	3
		Available Completely Online	OST	295	Office Systems Technology Internship OR 1-	
D	1.	manapie completely emine	COE	199	Cooperative Education: (Business Technology) OR (1-3	
Requ	212	Introduction to Financial Management OP 2	BAS	280	Business Internship(1-3	
BAS QMS	101	Introduction to Financial Management OR	OST	275	Office Management	
QIVIS	101	Second Quantitative Reasoning Course*(3)			Subtotal 1	8
BAS	284	Applied Management Skills			Total Credits 64-6	7
*Must b	oe a Genera	al Education Quantitative Reasoning that is different from core			Total cicuits 04-0	•
		oning selection.			Deal Fatata Managament Track - F00001700	
		2 hours (not duplicated from the core) from		ı	Real Estate Management Track - 520201706	
					<u> </u>	
					(Offered at ASC, BSC, ELC,WKC)	
the fo	ollowing	g Management and/or Technical Courses with	Requ	ired:	(Offered at ASC, BSC, ELC,WKC)	
the fo	ollowing ore that	g Management and/or Technical Courses with a 3 hours selected from Technical Courses.	Requ REA	ired: 100	Real Estate Principles I	
the fo	ollowing ore that ents may	g Management and/or Technical Courses with n 3 hours selected from Technical Courses. y select other courses as approved by the Business	REA REA	100 121	Real Estate Principles I	3
the formome Stude Admi	ollowing ore that ents may inistrati	g Management and/or Technical Courses with n 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.	REA REA REA	100 121 225	Real Estate Principles I	3
the for no mo Stude Admi Mana	ollowing ore that ents may inistrati	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.	REA REA REA REA	100 121 225 230	Real Estate Principles I  Appraising  Real Estate Finance  Real Estate Law	3
the formome Stude Admir Mana ACT	ollowing ore that ents may inistrati agement 277	g Management and/or Technical Courses with n 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator. t Courses  Managerial Accounting Topics	REA REA REA REA	100 121 225 230 ose 6 hou	Real Estate Principles I	3
the for no mo Stude Admi Mana	ollowing ore that ents may inistrati	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator. t Courses  Managerial Accounting Topics	REA REA REA Choo	100 121 225 230 ose 6 hou wing Tec	Real Estate Principles I	3 3 3
the formome Stude Admi Mana ACT BAS	ore that ents may inistrati agement 277 170	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choo	100 121 225 230 ose 6 hou wing Tec	Real Estate Principles I	3 3
the formome Stude Admir Mana ACT BAS BAS	ore than ents may inistrati agement 277 170 200	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choo follor cours	100 121 225 230 see 6 hou wing Tec ses as ap	Real Estate Principles I	3 3 3
the form of the stude Admir Mana ACT BAS BAS BAS	ollowing ore than ents may inistrati agement 277 170 200 212	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choo follo cours REA REA	100 121 225 230 see 6 hou wing Tec sees as ap 120 122	Real Estate Principles I	3 3 3 3
the form of the following the	ore than ents may ents may ents may ents may ents may ents ents may ents ents ents ents ents ents ents ents	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choc follor cours REA REA REA REA	100 121 225 230 see 6 hou wing Tecses as ap 120 122 200	Real Estate Principles I	3 3 3 3 3
the formome Stude Admi Mana ACT BAS BAS BAS BAS BAS BAS BAS BAS	control of the contro	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2	REA REA REA Choo follo cours REA REA REA	100 121 225 230 see 6 hou wing Tec ses as ap 120 122 200 201	Real Estate Principles I	3 3 3 3 3 3
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the formome Stude Admi Mana ACT BAS	bllowing ore than ents may ents may ents may ents may ents may ents ents may ents ents ents ents ents ents ents ents	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choo follo cour: REA REA REA REA REA REA	100 121 225 230 see 6 hou wing Tec ses as ap 120 122 200 201 202 203 204	Real Estate Principles I	3 3 3 3 3 3 3 3 3
the formome Stude Admi Mana ACT BAS	bllowing ore than ents may ents ents ents ents ents ents ents ents	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics	REA REA REA Choo follor cours REA REA REA REA REA	100 121 225 230 see 6 hou wing Tec ses as ap 120 122 200 201 202 203	Real Estate Principles I	3 3 3 3 3 3 3 3 3
the formome Stude Admi Mana ACT BAS	bllowing ore than ents may ents ents ents ents ents ents ents ents	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Retail Management 3	REA REA REA Choo follo cour: REA REA REA REA REA REA REA	100 121 225 230 see 6 hou wing Tec ses as ap 120 122 200 201 202 203 204 205	Real Estate Principles I	3 3 3 3 3 3 3 3 3 3
the formome Stude Admi Mana ACT BAS	bllowing ore than ents may ents ents ents ents ents ents ents ents	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Selected Topics in Management: (Track Topic) 1-3	REA REA REA Choo follo cour: REA REA REA REA REA REA REA	100 121 225 230 see 6 hou wing Tec ses as ap 120 122 200 201 202 203 204 205 212	Real Estate Principles I	3 3 3 3 3 3 3 3 3 3 3 3
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the formous Mana ACT BAS	collowing ore than the state of	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Selected Topics in Management: (Track Topic) 1-3 Office Management 3 Introduction to Quality Systems 3 Performance Management 3	REA REA REA Choo follo cours REA REA REA REA REA REA REA REA REA REA	100 121 225 230 see 6 hour wing Tec sees as ap 120 122 200 201 202 203 204 205 212 220 199	Real Estate Principles I	3 3 3 3 3 3 3 3 4 H)
the formous Mana ACT BAS	ore than ents may inistrati agement 277 170 200 212 289 290 256 260 274 285 287 288 291 299 275 101	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Selected Topics in Management: (Track Topic) 1-3 Office Management 3 Introduction to Quality Systems 3 Performance Management 3	REA REA REA Choo follo cours REA REA REA REA REA REA REA REA REA REA	100 121 225 230 see 6 hour wing Tec sees as ap 120 122 200 201 202 203 204 205 212 220 199	Real Estate Principles I	3 3 3 3 3 3 3 3 4 H) 8
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the form of the following management of the following mana	collowing ore than the state of	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Selected Topics in Management: 1-3 Office Management 3 Introduction to Quality Systems 3 Performance Management 3 Performance Management 3 Surses: Personal Finance 3	REA	100 121 225 230 see 6 houwing Tecs sees as ap 120 122 200 201 202 203 204 205 212 220 199	Real Estate Principles I	3 3 3 3 3 3 3 3 4 H) 8
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the form of the following studies and the following studies and the following studies are studies as a second studies and the following studies are studies as a second studies are studies as	bllowing ore than ents may inistrati egement 277 170 200 212 289 290 256 260 274 285 287 288 291 299 275 101 202 nical Co 120 234 236 203 235	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Supervisory Management 3 Personal and Organizational Leadership 3 Retail Management 3 Selected Topics in Management: 13 Office Management 3 Introduction to Quality Systems 3 Performance Management 3 Personal Finance 3 Advanced Productivity Software 3 Advanced Data Organization 3 Business Writing OR (3) Business Communications Technology (3)	REA	100 121 225 230 see 6 hour wing Teckses as ap 120 122 200 201 202 203 204 205 212 220 199 280	Real Estate Principles I	3 3 3 3 3 3 3 3 3 4 + +) <b>8 7</b>
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the form of the following the	bllowing ore than ents may inistrati agement 277 170 200 2112 289 290 256 260 274 285 287 288 291 299 275 101 202 234 236 203 235 199 280	g Management and/or Technical Courses with a 3 hours selected from Technical Courses. y select other courses as approved by the Business on Systems Program Coordinator.  t Courses  Managerial Accounting Topics 3 Entrepreneurship 3 Small Business Management 3 Introduction to Financial Management 3 Operations Management 3 Management, Ethics & Society 3 International Business 3 Professional Development and Protocol 2 Human Resource Management 3 Problems in Marketing and Management 3 Personal and Organizational Leadership 3 Retail Management 3 Retail Management 3 Selected Topics in Management: (Track Topic) 1-3 Office Management 3 Introduction to Quality Systems 3 Performance Management 3 Personal Finance 3 Advanced Productivity Software 3 Advanced Data Organization 3 Business Writing OR (3) Business Communications Technology (3) Cooperative Education: (Business Administration) 1-4 OR Business Internship (1-4)	REA	100 121 225 230 see 6 hour wing Teck sees as ap 120 122 200 201 202 203 204 205 212 220 199 280  Telecomn ired: 105 205 269	Real Estate Principles I	3 3 3 3 3 3 3 3 3 3 4 + +) 8 7 3 3 3 3
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Choo	se 3-4	hours (not duplicated from the core) from the	Requ	iired Te	echnical:	
		ourses. Students may select other courses (JAT,	1		Computer/Digital Literacy	0-3
		AS) as approved by the Business Administration	CIT	130	Productivity Software	
			ACC	*201	Financial Accounting OR	
_		oordinator.	ACT	101	Fundamentals of Accounting I AND	(3)
CIS	150	Doing Business on the Internet	ACT	102	Fundamentals of Accounting II	(3)
CIS	151	Introduction to Electronic Commerce	ACT	279	Computerized Accounting Systems	
CIS	152	Introduction to Web Page Design	AC I	21)	Additional accounting hours approved by	
CIS	153	Intermediate Web Page Design OR				0
BAS	284	Applied Management Skills			Program Coordinator.	
BAS	287	Supervisory Management			Required Technical Subtotal	18-24
BAS	299	Selected Topics in Management: (Track Topic) 1-3	ъ 1	1.0		1 . 1
OST	235	Business Communications Technology OR 3			urses (Choose 9 credit hours from the following	lowing list
ENG	203	Business Writing OR(3)	with	Progra	ım Coordinator Approval)	
JOU	204	Writing for Mass Media(3)	BAS	120	Personal Finance	
COE	199	Cooperative Education: (Business Administration) 1-4	BAS	267	Introduction to Business Law	3
		OR	BAS	283	Principles of Management	
BAS	280	Business Internship (1-4)	COE	199	Cooperative Education:	1-8
		Subtotal 18-19	BAS	200	Small Business Management	3
		54575441	BAS	260	Professional Development and Protocol	
		Total Credits 64-68	BAS	280	Business Internship	
					Economics course	
	Tef	Dunce / Landsconing Management Track			Quantitative Reasoning course	
	lurt i	Grass/Landscaping Management Track - 520201707			Total Credits	39-45
		(Offered at OWC)			iotal cicuits	37-43
Regu	irod.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*No co	urse can b	be used to fulfill more than one requirement.	
Requ					1	
TGM	140	Turf Grass for Golf and Landscaping			Informatics - 5202014059	
AGR	125	Introduction to Soils & Fertilizers				
TGM	210	Turf Grass Science 3			(Offered at SMC)	
HRT	130	Landscape Maintenance	Gene	ral Edu	ıcation:	
HRT	131	Landscape Maintenance Lab				
Choo	se 3 ho	ours (not duplicated from the core) from the	Area		777 · · · · · · I	2
		echnical Courses. Students may select other	ENG	101	Writing I	3
		pproved by the Business Administration Systems	Area	2 =		
			ECO	101	Contemporary Economics OR	3
		oordinator.	ECO	201	Principles of Microeconomics OR	
TGM	160	Golf Course Maintenance Systems	ECO	202	Principles of Macroeconomics	
TGM	220	Golf Course Irrigation			General Education Subtotal	6
TGM	230	Golf Course Operations			General Education Subtotal	Ü
AGR	140	Issues in Agriculture	Regi	ired Te	echnical:	
AGR	165	Agriculture Seminar 3	CIT	105	Introduction to Computers OR	3
AGR	170	Introduction to Equipment, Machines, & Engines 3	OST	105	Introduction to Information Systems	
HRT	104	Herbaceous Plant Identification				
HRT	108	Woody Plant Identification4	BAS	160	Introduction to Business	
HRT	120	Turf Management	BAS	283	Principles of Management	
COE	199	Cooperative Education OR	BAS	282	Principles of Marketing	
BAS	280	Business Internship(3)	ACC	201	Financial Accounting OR	
		Subtotal 17	ACT	101	Fundamentals of Accounting I AND	
			ACT	102	Fundamentals of Accounting II	
		Total Credits 63-66	IFM	128	Principles of Informatics	
			CIT	120	Computational Thinking	3
		Diplomas	CIT	170	Database Design Fundamentals	3
		Dipioinas	IFM	215	Information Systems Analysis	3
		Accounting E202014040			Required Technical Subtotal	27-30
		Accounting- 5202014049			•	
		(Offered at BSC, HPC, MYC, OWC, WKC)	Relat	ted Cou	urses (Choose 6 hours from the following	Technical
Cono	ral Edi	ication:			udents may select other courses as appro	
Gene	iai Lui	ication.			s Administration Systems Program Coord	
Area	1 =		IFM	130	Business Data Communication	
ENG	101	Writing I	IFM	235	Information Systems and Business Intelligence	
ENG	102	Writing II OR3			,	
ENG	203	Business Writing OR(3)	MGT	258	Project Management	
OST	235	Business Communications Technology(3)	IFM	111	Client-Side Informatics Software	
		Oral Communications	IFM	225	Advanced Informatics	
	2 –		IFM	211	Collaboration Software	3
Area	2=				Approved Technical Subtotal	6
		Quantitative Reasoning course			Total Credits	39-42
		(Excluding MAT 205, MAT 206, STA 200, STA 210)			iotal Cicuits	37-42
		General Education Subtotal 12	No con	rse can be	e used to fulfill more than one requirement	
			. 10 000	can be	. 2002 to rain more dan one requirement	

Content			Office Systems - 5202014019	BAS ACC	288 201	Personal and Organizational Leadership	
Act   1   2			(Offered at BSC, GTW, MDC, SMC, WKC)				
Area   =	Gene	ral Edu	cation:				
ENG   101	Area	1 =					
COM   352   Introduction to Interpretate From the Core) From the Core) From the Core   From the Core   From the Core) From the Core   From t			Writing I OR				
Name   State	COM	181	Basic Public Speaking OR(3)				
Note	COM	252	Introduction to Interpersonal Communication(3)				
Str   213   Basiness Calculations for the Office Processional OR   3   635   212   Introduction to Funcial Management   3	Area	2 =					tems
ECO   201			Business Calculations for the Office Professional OR 3	_			2
Required Technical   Second Education Subtotal   6   BAS   267   Introduction to Basiness Law	ECO	101				Professional Development and Protocol	3
Required Technical control to the computers OR	ECO	201					
No.   Section	ECO	202	*				
Required Technical Computers OR			General Education Subtotal 6				
CT   105	Requ	ired Tec	shnical.	BAS	290	Management, Ethics & Society	3
Section   Sect	-			OST	275	Office Management	3
ACC   201   Financial Accounting OR.   3   CI   102   Financial Accounting (ADD.   3)   3   ACT   101   Financiancial of Accounting (ADD.   3)   3   ACT   102   Fundamentals of Accounting (ADD.   3)   3   ACT   103   Fundamentals of Accounting (ADD.   3)   3   ACT   103   Fundamentals of Accounting (ADD.   3)   3   ACT   104   Advanced World Processing (ADD.   3)   3   ACT   105   Fundamentals of Accounting (ADD.   3)   3   ACT   105   Fundamental of Accounting (ADD.   3)   3   ACT   200   Advanced World Processing (ADD.   3)   4   ACT   3			Introduction to Information Systems			Managerial Accounting	3
ACT   101   Foudamentals of Accounting I AND   (3)							
ACT   102	ACT	101					
Sof   10	ACT	102	Fundamentals of Accounting II(3)	QMS	101		
ST   210	BAS	160					
ST   213   Business Calculations for the Office Protestional   3   3   5						Approved reclinical courses	11-12
ST   215    Office Procedures   3			Advanced Word Processing Applications			Total Credits	38-42
ST   20    Administrative Office Similations   3							
ST   130    Productivity Software OR						Small Business Management - 5202014039	
Second					(Of		
Characterise   Figure   Technical Subtotal   Characterise   Char					(O)		
Area   =					151	• *	
Following   Technical Courses			•	Gene	ral Edi	ication:	
Courses	Choo	se 6 hou	ars (not duplicated from the core) from the	Area	1 =		
Coordinators	follov	wing Te	chnical Courses. Students may select other				
Note	cours	ses as ap	proved by the Office Systems Program				
Section   Go   Records and Database Management   3   ECO   201   Contemporary Economics OR   3	Coor	dinator		СОМ	252	Introduction to Interpersonal Communication	(3)
SST   216   Selected Topics in Office Systems; (Topic)   1-3   ECO   201   Principles of Microeconomics OR   (3)		150		Area	2 =		
SST   295   Office Systems Technology Internship OR				ECO			
Solition   Color			Selected Topics in Office Systems: (Topic)			Principles of Microeconomics OR	(3)
Cooperative Education: (Business Administration)			Office Systems Technology Internelin OP 1.3	ECO	202		
Sea						General Education Subtotal	0
BAS   280	COL	1,,,		Regu	ired Te	echnical:	
Office Management	BAS	280					3
Approved Technical Courses	OST	275		OST	105		
BAS   200   Small Business Management   3   3   3   3   3   3   3   3   3							
BAS   212   Introduction to Financial Management * OR   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Business Law   3   Second Quantitative Reasoning Course*   (3)   Introduction to Bas   282   Principles of Marketing   (3)   Second Quantitative Reasoning Course*   (3)   Financial Counting OR   (3)   Second Quantitative Reasoning Course*   (3)   Second Quantitation Second Quant			Total Credits 39-42	BAS	170	Entrepreneurship*	(3)
Second Quantitative Reasoning Course* (3)   Second Quantitative Reasoning Course* (3)   Available Completely Online							
Combined   Asc, Bsc, Elc, JFC, MDC, OWC, SKY, SMC, WKC   BAS   267   Introduction to Business Law   3   3   3   3   3   3   3   3   3			Organizational Leadershin - 5202014029	BAS	212		
Available Completely Online		(Offere	•	DAC	267		
General Education:         BAS         283         Principles of Management         3           Area I =         ACC         201         Financial Accounting OR         3           ENG         101         Writing I OR         3         ACT         101         Fundamentals of Accounting I AND         (3)           COM         181         Basic Public Speaking OR         (3)         ACT         102         Fundamentals of Accounting II         (3)           COM         252         Introduction to Interpersonal Communication         (3)         ACT         102         Fundamentals of Accounting II         (3)           ECO         101         Contemporary Economics OR         3         Choose 6 hours (not duplicated from the core) from the ECO         26-27           ECO         201         Principles of Microeconomics OR         (3)         Following Technical Courses. Students may select other           ECO         202         Principles of Macroeconomics         (3)         courses as approved by the Business Administration Systems           BAS         212         Introduction to Financial Management *         3           CIT         105         Introduction to Computers OR         3         BAS         274         Human Res		ОДЕГЕ	-				
Area   =		1.5.1	. ,				
Area 1 = ACT 177 Entrepreneurial Accounting OR	Gene	ral Edu	cation:				
ENG 101 Writing I OR	Area	1 =				Entrepreneurial Accounting OR	(3)
COM 181 Basic Public Speaking OR (3) ACT 102 Fundamentals of Accounting II (3) Required Technical Subtotal 24-27  Area 2 = ECO 101 Contemporary Economics OR (3) Principles of Microeconomics OR (3) Principles of Microeconomics OR (3) Choose 6 hours (not duplicated from the core) from the following Technical Courses. Students may select other courses as approved by the Business Administration Systems General Education Subtotal 6 Program Coordinator.  Required Technical: BAS 212 Introduction to Financial Management * 3 ST 105 Introduction to Computers OR (3) BAS 274 Human Resource Management Skills (3) BAS 283 Principles of Management Skills (3) BAS 286 Personal and Organizational Leadership (3) BAS 287 Supervisory Management (3) BAS 288 Personal and Organizational Leadership (3) BAS 284 Applied Management Skills (3) BAS 286 Management Skills (3) BAS 280 Management, Ethics & Society (3) BAS 280 Management, Ethics & Society (3) BAS 280 Management, Ethics & Society (3) BAS 280 Principles of Management Skills (3) BAS 280 Management, Ethics & Society (3) BAS 280 Principles of Management Skills (3) BAS 280 Management, Ethics & Society (3) BAS 280 Principles of Management Skills (3) BAS 280 Management, Ethics & Society (3) BAS 280 Principles of Management Skills (3) BAS 280 Principles & Society (3) BAS 280 P				ACT	101	Fundamentals of Accounting I AND	(3)
Area 2 =  ECO 101 Contemporary Economics OR				ACT	102		
ECO101Contemporary Economics OR3Choose 6 hours (not duplicated from the core) from theECO201Principles of Microeconomics OR(3)following Technical Courses. Students may select otherECO202Principles of Macroeconomics(3)courses as approved by the Business Administration SystemsGeneral Education Subtotal6Program Coordinator.BAS212Introduction to Financial Management **3CIT105Introduction to Computers OR3BAS170Entrepreneurship*3OST105Introduction to Information Systems(3)BAS284Applied Management Skills3BAS160Introduction to Business3BAS287Supervisory Management3BAS283Principles of Management3BAS288Personal and Organizational Leadership3BAS284Applied Management Skills3BAS290Management, Ethics & Society3	СОМ	252	Introduction to Interpersonal Communication(3)			Required Technical Subtotal	24-27
ECO201Principles of Microeconomics OR(3)following Technical Courses. Students may select otherECO202Principles of Macroeconomics(3)courses as approved by the Business Administration SystemsGeneral Education Subtotal6Program Coordinator.BAS212Introduction to Financial Management **3CIT105Introduction to Computers OR3BAS170Entrepreneurship*3OST105Introduction to Information Systems(3)BAS284Applied Management Skills3BAS160Introduction to Business3BAS287Supervisory Management3BAS283Principles of Management3BAS288Personal and Organizational Leadership3BAS284Applied Management Skills3BAS290Management, Ethics & Society3	Area	2 =		CI.	1	( , 1 1 , 10 , 1 ) 6 , 1	
ECO 202Principles of Macroeconomics(3) courses as approved by the Business Administration SystemsGeneral Education Subtotal6 Program Coordinator.BAS 212 Introduction to Financial Management ** 3Required Technical:BAS 170 Entrepreneurship*3CIT 105 Introduction to Computers OR3 BAS 274 Human Resource Management3OST 105 Introduction to Information Systems(3) BAS 284 Applied Management Skills3BAS 160 Introduction to Business3 BAS 287 Supervisory Management3BAS 283 Principles of Management3 BAS 288 Personal and Organizational Leadership3BAS 284 Applied Management Skills3 BAS 290 Management, Ethics & Society3							
General Education Subtotal6 Program Coordinator.BAS 212 Introduction to Financial Management * 3Required Technical:BAS 170 Entrepreneurship*3CIT 105 Introduction to Computers OR3 BAS 274 Human Resource Management3OST 105 Introduction to Information Systems(3) BAS 284 Applied Management Skills3BAS 160 Introduction to Business3 BAS 287 Supervisory Management3BAS 283 Principles of Management3 BAS 288 Personal and Organizational Leadership3BAS 284 Applied Management Skills3 BAS 290 Management, Ethics & Society3							
BAS212Introduction to Financial Management *3Required Technical:BAS170Entrepreneurship*3CIT105Introduction to Computers OR3BAS274Human Resource Management3OST105Introduction to Information Systems(3)BAS284Applied Management Skills3BAS160Introduction to Business3BAS287Supervisory Management3BAS283Principles of Management3BAS288Personal and Organizational Leadership3BAS284Applied Management Skills3BAS290Management, Ethics & Society3	ECO	202	=				tems
Required Technical:BAS170Entrepreneurship*3CIT105Introduction to Computers OR3BAS274Human Resource Management3OST105Introduction to Information Systems(3)BAS284Applied Management Skills3BAS160Introduction to Business3BAS287Supervisory Management3BAS283Principles of Management3BAS288Personal and Organizational Leadership3BAS284Applied Management Skills3BAS290Management, Ethics & Society3			General Education Subtotal 6	_			2
CIT 105 Introduction to Computers OR. 3 BAS 274 Human Resource Management. 3 OST 105 Introduction to Information Systems. (3) BAS 284 Applied Management Skills. 3 BAS 160 Introduction to Business. 3 BAS 287 Supervisory Management . 3 BAS 283 Principles of Management . 3 BAS 288 Personal and Organizational Leadership. 3 BAS 284 Applied Management Skills. 3 BAS 290 Management, Ethics & Society. 3	Reau	ired Tea	chnical:			Introduction to Financial Management *	3
OST 105 Introduction to Information Systems. (3) BAS 284 Applied Management Skills 3 BAS 160 Introduction to Business 3 BAS 287 Supervisory Management 3 BAS 283 Principles of Management 3 BAS 288 Personal and Organizational Leadership 3 BAS 284 Applied Management Skills 3 BAS 290 Management, Ethics & Society 3							
BAS 160 Introduction to Business 3 BAS 287 Supervisory Management 3 BAS 283 Principles of Management 3 BAS 288 Personal and Organizational Leadership 3 BAS 284 Applied Management Skills 3 BAS 290 Management, Ethics & Society 3							
BAS 283 Principles of Management 3 BAS 288 Personal and Organizational Leadership 3 BAS 284 Applied Management Skills 3 BAS 290 Management, Ethics & Society 3			Introduction to Business			Supervisory Management	3
BAS 284 Applied Management Skills	BAS	283				Personal and Organizational Leadership	3
	BAS		Applied Management Skills				
	BAS	287	Supervisory Management	ACT	196		

Common	ACC CIT	202 130	Managerial Accounting	(Offe	red at AS	Basic Business Administration - 5202013139 SC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,
Common			Advanced Productivity Software OR(3)	ОДС	10a at 115	
No.   Introduction to Quality Systems						· · · · · · · · · · · · · · · · · · ·
Approved Technical Courses   6   815   101				D	1 .	Available Completely Offilite
Tiolal Credits	QMS	101				T. I D.
No.			Approved lechnical Courses 6			
Second common   Comparing			Total Credits 36-39			
Continue as incurrence as incurrence as not required accounting OR.   3   3   4   1   1   1   1   1   1   1   1   1						
Clarificates	*Not a	llowed as a	an Approved Technical Course if course has been taken as a required			
Compared to the Counting - S20201319   ECC   101   Principles of Microsconomics 108 (0.3)   Principles of Microsconom	course					
Accounting - 502013119			Cortificator			
Comparison   Accounting   -\$202013119   Face   Comparison   Amounting   Comparison   Compariso			<i>651111164153</i>			
Compared as St. ELG. GTW HEC, HPC, HZC, MDC, MYC, OWC, SEC, SKY, SMC   WRC			A			
Marco			ACCOUNTING - 5202013119			
Required   Required   Required   Fundamentals of Accounting IAND   3   ACT   201   Fundamentals of Accounting IAND   3   ACT   202   Managerial Accounting IAND   3   ACT   202   Accounting IAND   3   ACT   202   Managerial Accounting IAND   3   ACT   203   Managerial Accounting IAND   3   ACT   204   Managerial Accounting IAND   3	(Offer	red at BSC	C, ELC, GTW, HEC, HPC, HZC, MDC, MYC, OWC, SEC, SKY, SMC,			1
Required:			WKC)			
Required:			Available Completely Online			Dusiness Transfer E000010140
ACT   101   Financial Accounting OR   3	Regi	iired.	• •			
ACT   101			Financial Accounting OR	(Offe	ered at A	SC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY,
ACC   201   Amagerial Accounting						SMC,WKC)
Choose 12   Journal of the following Technical Courses   Students may select other courses as approved by the Busines   Administration Systems Program Coordinator   ACC   201						Available Completely Online
Choose 12 hours from the following Technical Courses   Students may select other courses as approved by the Busines   Administration Systems Program Coordinator   For Page 1   For Page 2   For Page 3   For Page				Regu	iired:	• •
Students may select other courses as approved by the Business Administration Systems Program Coordinator						Financial Accounting
Administration   Systems   Program   Coordinator						
Administration systems Program Coordinator   ECO 202   Principles of Macroeconomics   3   3   3   3   3   3   3   3   3				ECO	201	Principles of Microeconomics
ACT   277				ECO	202	
ACT   279   Computerized Accounting Systems   3   ACT   286   Individual Taxastion   3   ACT   286   Financial Accounting Topics   1-3   ACT   290   Selected Topics in Accounting Topics   1-3   ACT   290   Introduction to Financial Management   3   ACT   201   Financial Accounting OR   3   ACT   201   Financial Accounting OR   3   ACT   201   Financial Accounting In   3   ACT   201   F			,	STA	220	Statistics
ACT   281   Individual Taxation   3   3   3   5   5   5   5   5   5   5						Total Credits 15
ACT   286   Financial Accounting (Topics						
ACT   290   Selected Topics in Accounting (Topic)   1-3   3   3   3   3   3   3   3   3   3						Entrangalishin 5202012270
Required						
RAS   120   Personal Finance   3   ACC   201   Financial Accounting OR   3   ACC   201   Financial Accounting IAND   (3)   CT   234   Advanced Productivity Software   3   ACT   101   Fundamentals of Accounting IAND   (3)   ACT   102   Fundamentals of Accounting II   (3)   ACT   102   Fundamentals of Accounting II   (3)   ACT   102   Fundamentals of Accounting II   (3)   BAS   280   Business Internship   (3)   BAS   282   Principles of Marketing   (3)   BAS   282   Principles of Marketing   (3)   BAS   282   Principles of Marketing   (3)   BAS   283   Principles of Finance   (4)   BAS   283   B					$(O_{j})$	ffered at ELC, GTW, HPC, MDC, OWC, SEC, SKY,WKC)
Financial Accounting OR				Requ	iired:	
CIT   234   Advanced Productivity Software   3   ACT   101   Fundamentals of Accounting I AND   (3)				ACC	201	
CT   236				ACT	101	Fundamentals of Accounting I AND(3)
Column   Figure   F				ACT	102	Fundamentals of Accounting II(3)
BAS   280   Business Internship   3   BAS   282   Principles of Marketing   3   Total Credits   12-15				BAS		
Required   Responsible   Res	BAS	280				
Required   Accounting Recordkeeping Specialist - 5202013429   Coffered at ASC, BSC, ELC, OWC, MDC, MYC, SEC, SKY,WKC)   Finance - 5202013329     Required   Financial Accounting OR			•	BAS	288	
Required						Total Credits 12-15
Required		٨٥	oounting Decordkooning Crossiplist 5202012//20			
Required:   COffered at ASC, SSC, ELC, OWC, MDC, MTC, SEC, SAT, MC						Finance - 5202013329
Required:   Requ		(Offer	ed at ASC, BSC, ELC, OWC, MDC, MYC, SEC, SKY,WKC)			
ACT   101   Fundamentals of Accounting I AND   (3)   BAS   293   Principles of Finance   (3)   BAS   212   Introduction to Financial Management   (3)   BAS   (2)   Eventom the following Technical Courses.	Requ	uired:		Regi	iirad.	(office at 115 c, 52 c, 511 c)
ACT 102 Fundamentals of Accounting II (3) ACT 196 Payroll Accounting II (3) ACT 196 Payroll Accounting II (3) ACT 279 Computerized Accounting Systems 3 ACT 281 Individual Taxation 3 ACT 286 Financial Accounting Topics 3 BAS 120 Personal Finance 3 CIT 105 Introduction to Computers OR 3 BAS 120 Personal Finance 3 CIT 105 Introduction to Information Systems (3) OST 105 Introduction to Business Administration - 5202013129  (Offered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC, WKC)   **Financial Perspectives - 5202013159  (Offered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC, WKC)   **Available Completely Online**  **Required:**  BAS 282 Principles of Management 3 OST 101 Introduction to Business Law 3 OST 101 Introduction to Business Law 3 OST 102 Fundamentals of Accounting IAND (3) OST 103 Productivity Software 3 OST 104 Personal Finance 3 OST 105 Introduction to Business 1 OST 102 Fundamentals of Accounting II (3) OST 105 Introduction to Business 1 OST 1	ACC	201	Financial Accounting OR			Principles of Finance
Choose 9   Nours from the following Technical Courses	ACT	101	Fundamentals of Accounting I AND(3)			
ACT   279   Computerized Accounting Systems   3   Students may select other courses as approved by the Business ACT   281   Individual Taxation   3   Adm instration Systems Program Coordinator	ACT	102				~
ACT 281 Individual Taxation						
ACT 286 Financial Accounting Topics 3 BAS 120 Personal Finance 3 SCIT 105 Introduction to Computers OR 3 BAS 294 Money and Financial Institutions 3 BAS 295 International Finance 3 BAS 295 International Finance 3 BAS 295 Selected Topics in Management: (Track Topic) 3 BAS 295 Selected Topics in Management: (Track Topic) 3 BAS 295 Selected Topics in Management: (Track Topic) 3 BAS 295 Business Internship OR 1.4 COE 199 Cooperative Education (1-4) Total Credits 15 COE 199 Cooperative Education 14 COE 199 Cooperati						
CIT 105 Introduction to Computers OR. 3 BAS 294 Money and Financial Institutions. 3 OST 105 Introduction to Information Systems. (3) BAS 295 International Finance. 3 Total Credits 18-21 BAS 299 Selected Topics in Management: (Track Topic) 3 BAS 280 Business Internship OR. 1-4 COE 199 Cooperative Education . 1-4 COE 199 Cooperative Education . 1-4 Total Credits 15  (Offered at ASC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC) Available Completely Online  Required: BAS 282 Principles of Marketing 3 BAS 283 Principles of Management 3 BAS 283 Principles of Management 3 BAS 267 Introduction to Business Law 3 ACC 201 Financial Accounting OR 3 QMS 101 Introduction to Quality Systems 3 ACT 101 Fundamentals of Accounting I AND (3) CIT 130 Productivity Software. 3 BAS 160 Introductions to Business. 3 Total Credits 15 BAS 160 Introductions to Business. 3 BAS 120 Personal Finance. 3						,
OST 105 Introduction to Information Systems. (3) BAS 295 International Finance. (3) BAS 299 Selected Topics in Management: (Track Topic). (3) BAS 280 Business Internship OR (1-4) Total Credits 15  Advanced Business Administration - 5202013129 COOPER at ASC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)  Available Completely Online  Required:  BAS 282 Principles of Marketing. 3 BAS 283 Principles of Management 3 Principles of Management 3 Principles of Management 3 BAS 267 Introduction to Business Law. 3 ACC 201 Financial Accounting OR 3 ACC 201 Financial Accounting OR 3 ACC 201 Financial Accounting IAND (3) Total Credits 15  Total Credits 15 BAS 160 Introductions to Business . 3 BAS 120 Personal Finance. 3						
Required:   Advanced Business Administration - 5202013129   BAS   299   Business Internship OR   1-4						
Advanced Business Administration - 5202013129  (Offered at ASC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)  Available Completely Online  Required: BAS 282 Principles of Marketing 3 BAS 283 Principles of Management 3 BAS 267 Introduction to Business Law 3 QMS 101 Introduction to Quality Systems 3 CIT 130 Productivity Software 3 Total Credits 1280 Business Internship OR 1-4 COE 199 Cooperative Education (1-4) Total Credits 15  Financial Perspectives - 5202013159  (Offered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC, WKC)  **Available Completely Online**  **Required:**  Available Completely Online 5  **Required:**  Available Completely Online 5  **Available Completely Online 6  **Required:**  Available Completely Online 7  **Available Completely Online 6  **Available Completely Online 7  **Available Completely Online 8  **Acc 201 Financial Accounting OR 3  Acc 201 Fundamentals of Accounting I AND (3)  **Acc 201 F	051	105				
Advanced Business Administration - 5202013129  (Offered at ASC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)  Available Completely Online  Required: BAS 282 Principles of Marketing			Total Credits 18-21			
Total Credits   Total Credit						
(Offered at ASC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)  Available Completely Online  Required: BAS 282 Principles of Marketing		A	dvanced Business Administration - 5202013129	COL	1))	
Required: BAS 282 Principles of Marketing 3 BAS 267 Introduction to Business Law 3 QMS 101 Introduction to Quality Systems 3 QMS 101 Productivity Software 3 ACT 101 Fundamentals of Accounting I AND (3) CIT 130 Productivity Software 3 Total Credits Financial Perspectives - 5202013159  (Offered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC,WKC)  Available Completely Online  Required:  13 Required:  14 Fundamentals of Accounting OR 3 ACT 101 Fundamentals of Accounting I AND (3) Financial Perspectives - 5202013159  (Offered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC,WKC)  Available Completely Online  15 BAS 101 Financial Accounting OR 3 Fundamentals of Accounting I AND (3) Fundamentals of Accounting I AND (3) Fundamentals of Accounting II (3) Fundamentals of Ac	(Offe					iotal cicuits
Required: BAS 282 Principles of Marketing	\ \D					EL
Required: BAS 282 Principles of Marketing 3 BAS 283 Principles of Management 3 BAS 267 Introduction to Business Law 3 CIT 130 Productivity Software 3 Total Credits 3  COffered at ASC, BSC, ELC, GTW, HPC, HZC, MYC, OWC, SEC, SMC,WKC)  Available Completely Online  Required:  8 Required:  1 Financial Accounting OR 3  ACT 101 Fundamentals of Accounting I AND (3)  Fundamentals of Accounting II (3)  Fundamentals of Accounting II (3)  BAS 120 Personal Finance 3			*			Financial Perspectives - 5202013159
Required:  BAS 282 Principles of Marketing	D.		[	(0	ffered at	•
BAS 283 Principles of Management 3 Required: BAS 267 Introduction to Business Law 3 ACC 201 Financial Accounting OR 3 QMS 101 Introduction to Quality Systems 3 ACT 101 Fundamentals of Accounting I AND (3) CIT 130 Productivity Software 3 ACT 102 Fundamentals of Accounting II (3) Total Credits 15 BAS 160 Introductions to Business 3 BAS 120 Personal Finance 3			Duinginles of Marketing	` .	~	
BAS         267         Introduction to Business Law         3         ACC         201         Financial Accounting OR         3           QMS         101         Introduction to Quality Systems         3         ACT         101         Fundamentals of Accounting I AND         (3)           CIT         130         Productivity Software         3         ACT         102         Fundamentals of Accounting II         (3)           Total Credits         15         BAS         160         Introductions to Business         3           BAS         120         Personal Finance         3				Rear	iired:	i >
QMS         101         Introduction to Quality Systems         3         ACT         101         Fundamentals of Accounting IAND         (3)           CIT         130         Productivity Software         3         ACT         102         Fundamentals of Accounting II         (3)           Total Credits         15         BAS         160         Introductions to Business         3           BAS         120         Personal Finance         3						Financial Accounting OR
CIT         130         Productivity Software.         3         ACT         102         Fundamentals of Accounting II         (3)           Total Credits         15         BAS         160         Introductions to Business         3           BAS         120         Personal Finance         3						
Total Credits         15         BAS and BAS are served as BAS and BAS are served as BAS are serv	-					
BAS 120 Personal Finance	J11	.50			160	
Total Credits 9-12			19	BAS	120	
						Total Credits 9-12

(Offer	red at ASC	General Business - 5202013169 , BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,			Industrial Supervisor - 5202013339 (Offered at ASC, HPC, SEC)
		SKY, $SMC$ , $WKC$ )	Gene	ral Edu	ication:
		Available Completely Online	ENG	101	Writing I 3
Requ	ired:		MAT	150	College Algebra 3
BAS	160	Introduction to Business	COM	181	Basic Public Speaking OR
CIT	105	Introduction to Computers OR	COM	252	Interpersonal Communications OR(3)
OST	105	Introduction to Information Systems(3)	PSY	110	General Psychology(3)
ACT	101	Fundamentals of Accounting I*	Regu	ired Te	echnical:
ECO	101	Contemporary Economic Issues OR	BAS	287	
ECO	201	Principles of Microeconomics OR(3)	INDT	120	Supervisory Management
ECO	202	Principles of Macroeconomics(3)	INDT	233	Industrial Safety     3       Statistical Process Control     3
		Total Credits 12	BAS	274	Human Resource Management
			CIT	105	Introduction to Computers OR
* ACC	201 may be	substituted	OST	105	Introduction to Information Systems(3)
					·
		Hospitality Management - 5202013179			ours from the approved Technical Courses:
		(Offered at BSC, SEC, SMC,WKC)	BAS	160	Introduction to Business
Dagu	inod.		INDT	220	Introduction to Industrial Psychology
Requ			ENV	101	Fundamentals of Environment Science
HOS	100	Introduction to Hospitality	ENV	131	Environment Management
CUL	100	Culinary Arts Profession	INDT	250	Team Dynamics & Problem – Solving
HOS	282	Tourism Marketing			Total Credits 30
Stude	ents may	rs from the following Technical Courses. y select other courses (HOS or CUL) as approved			Informatics Fundamentals - 5202013449
		ess Administration Systems Program Coordinator.			(Offered at SMC)
BAS	200	Small Business Management	IFM	128	Principles of Informatics
BAS	274	Human Resource Management	CIT	120	Computational Thinking
COE	199	Cooperative Education: Business Administration OR 1-3	CIT	170	Database Design Fundamentals
BAS	280	Business Internship OR(1-3)	IFM	215	Information Systems Analysis
BAS	290	Management, Ethics & Society(1-3)			Total Credits 12
CUL	200	Sanitation & Safety			
CUL	105	Applied Fundamentals of the Culinary Arts Profession 2			Information Dusiness Analyst E0000104E0
CUL	280	Cost & Control			Informatics Business Analyst – 5202013459
HOS	160	Security for the Hospitality Industry			(Offered at SMC)
HOS	200	Cultural Heritage Tourism	Requir	ed: Cho	ose 6 hours from the following Courses.
HOS	210	Front Office Operations & Management	IFM	130	Business Data Communications
HOS	220	Housekeeping & Maintenance Management	IFM	235	Information Systems and Business Intelligence
CUL	270	Human Relations Management	IFM	111	Client-Side Informatics Software
		Total Credits 17			Total Credits 6
	ı	Human Resource Management - 5202013359			Leadership - 5202013199
	(Offe	ered at BSC, ELC, GTW, HEC, MDC, MYC, SEC,WKC)	(Offer	red at AS	C, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY,
Requ			( 3)		SMC,WKC)
BAS	274	Human Resource Management			Available Completely Online
BAS	287	Supervisory Management	_		Available Completely Online
ACT	196	Payroll Accounting	Requ		
		•	BAS	288	Personal and Organizational Leadership
		irs from the following Technical Courses.	BAS	160	Introduction to Business
		select other courses as approved by the Business	ECO	101	Contemporary Economic Issues OR
Admi	inistrati	on Systems Program Coordinator.	ECO	201	Principles of Microeconomics OR(3)
BAS	280	Business Internship OR1-3	ECO	202	Principles of Macroeconomics(3)
COE	199	Cooperative Education(1-3)	COM	181	Basic Public Speaking OR
ISX	101	Introduction to Industrial Safety 3	COM	252	Introduction to Interpersonal Communication(3)
BAS	284	Applied Management Skills			Total Credits 12
BAS	288	Person & Organizational Leadership			
BAS	290	Management, Ethics & Society			Management - 5202013209
BAS	299	Selected Topics in Management: (Track Topic)1-3	(00	ad at 10	
OST	275	Office Management	Offer	eu at AS	C, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,
QMS	101	Introduction to Quality Systems			SKY, SMC,WKC)
QMS	202	Performance Management			Available Completely Online
PSY	180	Human Relations	Requ	ired:	
		Total Credits 18	BAS	283	Principles of Management
			BAS	212	Introduction to Financial Management OR 3
			QMS	101	Introduction to Quality Systems OR(3)
					Second Quantitative Reasoning Course from General
					Education not duplicative of core math(3)
			BAS	284	Applied Management Skills

Choo	se 6 ho	urs from the following Technical Courses.			Pre-Licensing Real Estate - 5202013239
		y select other courses as approved by the Business		(Offa	red at ASC, BSC, ELC, MDC, MYC, OWC, SEC, SMC,WKC)
		ion Systems Program Coordinator:	_	-	tea at ASC, BSC, EEC, MDC, MTC, OWC, SEC, SMC, WKC)
ACT	277	Managerial Accounting Topics	Requ		D IF. D III
BAS	200	Small Business Management	REA	100	Real Estate Principles I
BAS	256	International Business	Choo	se 3 h	ours from the following Technical Courses.
BAS	260	Professional Development & Protocol	Stude	ents m	ay select other courses as approved by the Business
BAS	274	Human Resource Management	Adm	inistra	ation Systems Program Coordinator.
BAS	285	Problems in Marketing & Management	REA	120	Real Estate Marketing
BAS	287	Supervisory Management	REA	200	Real Estate Principles II
BAS	288	Personal & Organizational Leadership	REA	225	Real Estate Finance
BAS	289	Operations Management	REA	230	Real Estate Law
BAS	290	Management, Ethics & Society			Total Credits 6
BAS	291	Retail Management			
BAS	299 275	Selected Topics Management: (Track Topic)			Quality Management - 5202013229
OST		Office Management			, ,
QMS QMS	101 202	Introduction to Quality Systems     3       Performance Management     3			(Offered at BSC, OWC, SEC, SMC)
QMS	202	Total Credit Hours 15	Requ	ired:	
		iotal cicuit flouis	QMS	101	Introduction to Quality Systems
			QMS	240	Statistics for Quality I
		Office Systems - 5202013219	QMS	201	Customer Service Improvement Skills
	(Off	ered at BSC, GTW, HEC, HZC, MDC, SEC, SMC,WKC)	QMS	202	Performance Management
Dogu	ω		MAT	150	College Algebra 3
Requ		D			Total Credits 15
OST OST	110 210	Document Formatting and Word Processing			
OST	215	Office Procedures			Residential Real Estate - 5202013249
OST	220	Administrative Office Simulations			
					(Offered at BSC, ELC, MDC, MYC, OWC, SMC, WKC)
		urs from the following Technical Courses.	Requ	ired:	
		y select other courses as approved by the Business	REA	100	Real Estate Principles I
Admi	inistrat	ion Systems Program Coordinator.	REA	120	Real Estate Marketing
OST	150	Transcription and Office Technology	Choo	se 6 h	ours from the following Approved Technical
OST	160	Records and Database Management	Cour		8 11
OST	216	Selected Topics in Office Systems: (Topic) 1-3	REA	121	Appraising
OST	235	Business Communications Technology	REA	122	Construction and Blueprints
OST	295	Office Systems Technology Internship OR	REA	200	Real Estate Principles II
COE	199	Cooperative Education: (Business Technology) OR (1-3)	REA	201	Property Management
BAS	280	Business Internship(1-3)	REA	225	Real Estate Finance
OST	275	Office Management	REA	230	Real Estate Law
		Total Credits 18			Total Credits 12
		Operations Management - 5202013369			Sales - 5202013259
		(Offered at GTW, HPC, MYC, SEC, WKC)			
D	. 1	(office at 317,111 e, 111 e, 52 e,771 e)			(Offered at BSC, GTW, MYC, OWC, SEC, SMC, WKC)
Requ			Requ	ired:	
BAS	160	Introduction to Business 3	BAS	155	Personal Selling
BAS	287	Supervisory Management OR	COM	181	Basic Public Speaking OR
BAS	288	Personal & Organizational Leadership OR(3)	COM	252	Introduction to Interpersonal Communication(3)
QMS BAS	101	Introduction to Quality Systems	Choo	se 6 h	ours from the following Technical Courses.
MFG	289 256	Operations Management OR			ay select other courses as approved by the Business
COM	181	Basic Public Speaking OR	_		
COM		Introduction to Interpersonal Skills(3)	BAS	291	tion Systems Program Coordinator.
COM	232	Total Credits 12	CIT	155	Retail Management
		10 11 11 11 11 11 11 11 11 11 11 11 11 1	QMS	201	Customer Service Improvement Skills
		D II.4 II. 0 III. F000040400	BAS	260	Professional Development and Protocol
		Payroll Accounting Specialist - 5202013439	COE	199	Cooperative Education OR
	(Offer	ed at ASC, BSC, ELC, MDC, MYC, OWC, SEC, SKY,WKC)	BAS	280	Business Internship(1-3)
Regre	_		2.10		Total Credits 12
Requ ACC	201	Financial Accounting OR			
ACT	101	Fundamentals of Accounting I AND(3)			
ACT	102	Fundamentals of Accounting II(3)			
ACT	196	Payroll Accounting			
ACT	279	Computerized Accounting Systems			
		Total Credits 9-12			
		/ ·-			

#### Small Business Management - 5202013269

(Offered at ASC, BSC, ELC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,WKC)

Available Completely Online

		Tivatiable completely offithe					
Requ	ired:						
BAS	160	Introduction to Business OR	3				
BAS	170	Entrepreneurship	(3)				
BAS	200	Small Business Management	3				
BAS	212	Introduction to Financial Management OR	3				
QMS	101	Introduction to Quality Systems OR					
		Second Quantitative Reasoning Course from General					
		Education					
BAS	282	Principles of Marketing	3				
ACC	201	Financial Accounting OR	3				
ACT	177	Entrepreneurial Accounting OR	(3)				
ACT	101	Fundamentals of Accounting I AND	(3)				
ACT	102	Fundamentals of Accounting II					
		Total Credits	15-18				
	Supervisory Management - 5202013279						
(Offer	ed at ASC	', BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC	, SKY,				
		SMC,WKC)					
	Available Completely Online						

Kequ	ured:		
CIT	105	Introduction to Computers	3
OST	235	Business Communications Technology	3
BAS	160	Introduction to Business	3
BAS	287	Supervisory Management	3
BAS	274	Human Resource Management	3

#### Choose 6 hours from the following Technical Courses. Students may select other courses as approved by the Business Administration Systems Program Coordinator.

BAS	283	Principles of Management	. 3
BAS	288	Personal and Organizational Leadership	
BAS	290	Management, Ethics & Society	. 3
OST	275	Office Management	
QMS	101	Introduction to Quality Systems	. 3
		Total Credits	21

#### Team Leadership - 5202013309

(Offered at BSC, ELC, JFC, MDC, MYC, OWC, SEC, SKY,WKC)

Available Completely Online

#### **Required Courses:**

OST	105	Introduction to Information Systems OR
CIT	105	Introduction to Computers(3)
OST	235	Business Communication Technology OR
COM	181	Basic Public Speaking OR(3)
COM	252	Interpersonal Communications(3)
BAS	287	Supervisory Management
BAS	288	Personal & Organizational Leadership
QMS	101	Quality Management Systems

#### Choose 3 hours from the following Technical Courses. Students may select other courses as approved by the Business Administration Systems Program Coordinator

QMS	202	Performance Management	3
BAS	160	Introduction to Business	3
BAS	274	Human Resource Management	3
BAS	290	Management, Ethics & Society	3
		Total Credits	18

#### **Telecommunication Systems Management - 5202013289**

(Offered at SMC)

		(Offered at SMC)
Requ	ired:	
CMS	105	Multimedia Production and Applications I
CMS	205	Multimedia Production and Applications II
CMS	269	Media Advertising
COM	249	Mass Media/Mass Culture
JAT	101	Introduction to Communication Media
Choo	se 3-5 h	ours from the following Technical Courses.
Stude	ents may	y select other courses (JAT, COM, or CMS courses)
as ap	proved	by the Business Administration Systems Program
Coor	dinator	
CIS	150	Doing Business on the Internet
CIS	151	Introduction to Electronic Commerce
CIS	152	Introduction to Web Page Design
CIS	153	Intermediate Web Page Design
BAS	284	Applied Management Skills
BAS	287	Supervisory Management
BAS	299	Selected Topics in Management: (Track Topic) 1-3
ENG	203	Business Writing OR
JOU	204	Writing for Mass Media(3)
COE	199	Cooperative Education: (Business Administration) 1-3
		OR
BAS	280	Business Internship (1-3)
		Total Credits 18-20

#### Turf Grass / Landscaping Management - 5202013299

(Offered at OWC, SMC)

Requ	ired:		
TGM	140	Turf Grass for Golf and Landscaping	. 3
AGR	125	Introduction to Soils & Fertilizers	. 3
TGM	210	Turf Grass Science	. 3
HRT	130	Landscape Maintenance	. 3
HRT	131	Landscape Maintenance Lab	. 2
	_		

### Choose 3 hours from the following Approved Technical Courses:

TGM	160	Golf Course Maintenance Systems	3
TGM	220	Golf Course Irrigation	3
TGM	230	Golf Course Operations	3
AGR	140	Issues in Agriculture	3
AGR	165	Agriculture Seminar	3
AGR	170	Introduction to Equipment, Machines, & Engines	3
HRT	104	Herbaceous Plant Identification	4
HRT	108	Woody Plant Identification	4
HRT	120	Turf Management	3
COE	199	Cooperative Education OR	
BAS	280	Business Internship	(1-3)
		Total Credits	17

## **Medical Information Technology**

Medical Information Technology graduates prepare medical records and reports, maintain paper and electronic files, order supplies, perform accounting procedures, work with medical insurance and coding, and receive patients in a variety of health care settings. Some of the degree tracks include Medical Administrative Assistant, Medical Insurance Coder, and Electronic Medical Records. Students enrolled in the degree or diploma programs are required to do an internship or capstone course.

Progression in the Medical Information Technology program is contingent upon achievement of a grade of "C" or better in each course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

MAT 105	(Offer		Associate in Applied Science	OST CIT	210 170	Advanced Word Processing Application	3
MAT 105	(Office						
MAT   105		ea at 115				Total	64
MAT   10	Gene	ral Edu	ucation:		M	odical Office Management Track 51071C700	
Motion   College Algebra OR.   3						•	
A Higher Level Quantitative Reasoning Course.   3					~		3
BAS   160							
Oral Communications   3   OST   275   Office Management   3   3   3   3   3   3   3   3   3			C				
Heritage / Humanities	BIO	135					
Social/Behavioral Sciences				081	275		
**Students can fulfill the Biology requirement with both BIO 137 and BIO 139.							
Second   S			Subtotal 19			Total	61
Tech			**Students can fulfill the Biology requirement with			Iotai	04
Cost   105						Medical Transcription Track - 510716708	
OST   105	Techi	nical C	'Ore'		(Offered		
CIT   105					Орегеа		
MIT   230   Medical Information Management.   3   OST   210   Advanced Word Processing Application.   3   3   3   3   3   3   3   3   3			· · · · · · · · · · · · · · · · · · ·	MIT	106		3
OST   240   Software Integration OR.   3   OST   235   Business Communications Technology   3   Course Approved by Program Coordinator   3   Subtotal   15							
CIT   130							
Medical Office Terminology OR				081	235		
Medical Terminology OR			Medical Office Terminology OR				
Mit	AHS	115				Tabl	<i>(</i> )
MIT   217   Medical Office Procedures   3   3   3   3   3   3   3   3   3						iotai	64
MIT 227   Medical Office Software						Ninlomac	
MIT   228   Electronic Medical Records						υιμισιιιας	
Medical Information Technology Capstone   3   Subtotal   30   Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, SKY, SMC,WKC)   Available Completely Online					M	edical Administrative Assistant - 5107164019	
Medical Coding Track - 510716706   Subtotal   Subtota	MIT	295	<u> </u>	(Offe		, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, SKY, SMC,WK	C)
Complete at ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)				_	1 1 1		
Available Completely Online			Madical Administrative Track 510716705	Gene	eral Educ	cation/Applied Academics	
ACT   101   Fundamentals of Accounting I OR	(01	Υ1		BIO	135	Basic Anatomy and Physiology with Laboratory**	4
ACC         201         Financial Accounting I         (3)           OST         225         Introduction to Desktop Publishing         3         ***Students can fulfill the Biology requirement with both BIO 137 and BIO 139.           OST         235         Business Communications Technology         3         Technical or Support Courses           OST         210         Advanced Word Processing Application         3         ACT         101         Fundamentals of Accounting I OR         3           Subtotal         15         OST         110         Document Formatting and Word Processing         3           Total         64         OST         213         Business Calculation for Office Professionals OR         3           MAT         105         Business Mathematics OR         (3)           Higher Quantitative Reasoning course         (3)           (Offered at ASC, BLC, BSC, ELC, HPC, HZC, MDC, MYC, OWC, SMC, WKC)         MIT         230         Medical Information Management         3           ACT         101         Fundamentals of Accounting I OR         3         OST         240         Software Integration OR         3           ACC         201         Financial Accounting I         (3)         OST         240         Software Integration OR         3	(Of	fered at 1	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)	BIO OST	135 108	Basic Anatomy and Physiology with Laboratory** Editing Skills for Office Professionals OR	3
OST         225         Introduction to Desktop Publishing         3         ***Students can fulfill the Biology requirement with both BIO 137 and BIO 139.           OST         235         Business Communications Technology         3         Technical or Support Courses           OST         210         Advanced Word Processing Application         3         ACC         201         Financial Accounting I OR         3           Course Approved by Program Coordinator         3         ACC         201         Financial Accounting I         (3)           Subtotal         15         OST         110         Document Formatting and Word Processing         3           Total         64         OST         213         Business Calculation for Office Professionals OR         3           MAT         105         Business Mathematics OR         (3)           Higher Quantitative Reasoning course         (3)           Higher Quantitative Reasoning course         (3)           OST         235         Business Communications Technology         3           ACZ         Business Communications Technology         3           OST         210         Advanced Word Processing Application         3           ACZ         101         Fundamentals of Accounting I         3		,	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online	BIO OST	135 108	Basic Anatomy and Physiology with Laboratory** Editing Skills for Office Professionals OR Writing I	3 (3)
Advanced Word Processing Application	ACT	101	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	BIO OST	135 108	Basic Anatomy and Physiology with Laboratory** Editing Skills for Office Professionals OR Writing I	3 (3)
Course Approved by Program Coordinator	ACT ACC OST	101 201 225	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	BIO OST ENG	135 108 101	Basic Anatomy and Physiology with Laboratory** Editing Skills for Office Professionals OR Writing I Subtotal	3 (3)
Subtotal   15 OST   110   Document Formatting and Word Processing.   3   3   3   3   3   3   3   3   3	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	BIO OST ENG **Stud	135 108 101 ents can fulf	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.	3 (3)
Total   64 OST   213   Business Calculation for Office Professionals OR   3   3   3   3   4   3   4   3   4   3   4   3   4   3   4   4	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	BIO OST ENG  **Stud Tech ACT	135 108 101 ents can fulf <b>nical or</b> 1	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.  Support Courses  Fundamentals of Accounting I OR	3 (3) 7
MAT   105   Business Mathematics OR	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	BIO OST ENG  **Stud  Tech ACT ACC	135 108 101 ents can fulf <b>nical or</b> 101 201	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.  Support Courses  Fundamentals of Accounting I OR  Financial Accounting I	3 (3) 7 3 (3)
Medical Coding Track - 510716706 OST 235 Business Communications Technology 3  (Offered at ASC, BLC, BSC, ELC, HPC, HZC, MDC, MYC, OWC, SMC, WKC) MIT 230 Medical Information Management 3  Available Completely Online OST 210 Advanced Word Processing Application 3  ACT 101 Fundamentals of Accounting I OR 3 OST 240 Software Integration OR 3  ACC 201 Financial Accounting I (3) CIT 130 Productivity Software (3)  MIT 204 Medical Coding 3 MIT 103 Medical Office Terminology OR 3  AUS 115 Medical Coding (3)	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST	135 108 101 ents can fulf <b>nical or</b> 101 201 110	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.  Support Courses  Fundamentals of Accounting I OR  Financial Accounting I  Document Formatting and Word Processing	3 7 3 (3) 3
(Offered at ASC, BLC, BSC, ELC, HPC, HZC, MDC, MYC, OWC, SMC,WKC)MIT230Medical Information Management3Available Completely OnlineOST210Advanced Word Processing Application3ACT101Fundamentals of Accounting I OR3OST240Software Integration OR3ACC201Financial Accounting I(3)CIT130Productivity Software(3)MIT204Medical Coding3MIT103Medical Office Terminology OR3	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST	135 108 101 ents can fulf <b>nical or</b> 1 101 201 110 213	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.  Support Courses  Fundamentals of Accounting I OR  Financial Accounting I  Document Formatting and Word Processing  Business Calculation for Office Professionals OR	3 (3) 7 3 (3) 3
Available Completely Online  ACT 101 Fundamentals of Accounting I OR.  ACC 201 Financial Accounting I  MIT 204 Medical Coding.  Available Completely Online  OST 210 Advanced Word Processing Application.  Software Integration OR.  3 OST 240 Software Integration OR.  4 OST 240 SOFTWA	ACT ACC OST OST	101 201 225 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)         Available Completely Online         Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST	135 108 101 ents can fulf <b>nical or</b> 1 101 201 110 213	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR  Writing I  Subtotal  fill the Biology requirement with both BIO 137 and BIO 139.  Support Courses  Fundamentals of Accounting I OR  Financial Accounting I  Document Formatting and Word Processing  Business Calculation for Office Professionals OR  Business Mathematics OR  Higher Quantitative Reasoning course	3 (3) 7 3 (3) 3 3 (3) (3) (3)
ACT 101 Fundamentals of Accounting I OR. 3 OST 240 Software Integration OR. 3 ACC 201 Financial Accounting I . (3) CIT 130 Productivity Software. (3) MIT 204 Medical Coding . 3 MIT 103 Medical Office Terminology OR . 3  AUS 115 Medical Office Terminology OR . 3	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT	135 108 101 ents can fulf nical or 1 101 201 110 213 105	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 3 (3) 3 3 (3) (3) 3 3
ACC 201 Financial Accounting I (3) CIT 130 Productivity Software. (3) MIT 204 Medical Coding 3 MIT 103 Medical Office Terminology OR 3	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST MIT	135 108 101 ents can fulf nical or 1 101 201 110 213 105	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 3 (3) 3 3 (3) 3 3 3
MIT 204 Medical Coding 3 MIT 103 Medical Office Terminology OR 3	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC,WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST MIT OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 3 (3) 3 3 (3) 3 3 3 3
	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST OST OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 3 3 (3) 3 3 (3) 3 3
	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) <b>7 7</b> (3)3 (3)3 (3)33 (3) (3)33
OST 235 Business Communication Technology	ACT ACC OST OST OST	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 7 (3)33 (3)33 (3)3 (3)3 (3)3 (3)3 (3)3 (3)3 (3)3 (3)
MIT 104 Medical Insurance	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 7 7 (3)33 (3)33 (3)3 (3) (3) (3) (3) (3) (3) (3) (3) (3)
Subtotal 15 MIT 217 Medical Office Procedures	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST CIT MIT AHS CLA MIT	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)33 (3)3 (3)3 (3)3 (3)3 (3)3 (3)3 (3)3
Total 64 MIT 227 Medical Office Software	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)33 (3)3 (3)3 (3)33
OST 105 Introduction to Information Systems OR	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT MIT	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104 217	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)33 (3)3 (3)3 (3)33
Electronic Medical Records Track - 510716707 CIT 105 Introduction to Computers	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT MIT MIT OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104 217 227	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)3 (3)3 (3)3 (3)33
Course approved by 1 registant coordinator	ACT ACC OST OST OST ACT ACC MIT MIT	101 201 225 235 210 <i>fered at A</i> 101 201 204 205 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT MIT MIT OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104 217 227	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)33 (3)33
Available Completely Online	ACT ACC OST OST OST OST	101 201 225 235 210 <i>Gered at A</i> 101 201 204 205 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT MIT MIT OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104 217 227	Basic Anatomy and Physiology with Laboratory**  Editing Skills for Office Professionals OR.  Writing I	3 (3) 73 (3)33 (3)33 (3)33
ACT 101 Fundamentals of Accounting I OR	ACT ACC OST OST OST OST	101 201 225 235 210 <i>Gered at A</i> 101 201 204 205 235	ASC, BLC, BSC, GTW, HZC, MDC, MYC, OWC, SKY, SMC, WKC)  Available Completely Online  Fundamentals of Accounting I OR	**Stud Tech ACT ACC OST OST MAT OST OST CIT MIT AHS CLA MIT MIT MIT MIT OST	135 108 101 ents can fulf nical or 1 101 201 110 213 105 235 230 210 240 130 103 115 131 295 104 217 227	Basic Anatomy and Physiology with Laboratory** Editing Skills for Office Professionals OR. Writing I	3 (3) 7 73 (3)33 (3)33 (3)33

		Medical Records Specialist - 5107164069	MIT	104	Medical Insurance
(Offer	red at ASC	C, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, SMC,WKC)	MIT MIT	217	Medical Office Procedures 3
· 30		Available Completely Online	MIT	227 228	Medical Office Software
Gene	ral Edu	cation/Applied Academics	11111	220	Total 30
BIO	135	Basic Anatomy and Physiology with Laboratory**			
OST	108	Editing Skills for Office Professional OR			Medical Decentionist 5107102040
ENG	101	Writing I(3)			Medical Receptionist - 5107163049
		Subtotal 7	(Offe	ered at AS	SC, BLC, BSC, ELC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY,
1		11.1 22.42			SMC,WKC)
**Stude	ents can ful	Ifill the Biology requirement with both BIO 137 and BIO 139.			Available Completely Online
Techi		Support Courses	OST	105	Introduction to Information Systems OR
OST	105	Introduction to Information Systems OR	CIT OST	105 108	Introduction to Computers
CIT	105	Introduction to Computers(3)	031	100	3
OST OST	110 235	Document Formatting and Word Processing	ENG	101	Writing I(3)
OST	210	Advanced Word Processing Application	OST	110	Document Formatting and Word Processing
OST	240	Software Integration OR	MIT	230	Medical Information Management
CIT	130	Productivity Software(3)	MIT	103	Medical Office Terminology OR
MIT	103	Medical Office Terminology OR	AHS	115	Medical Terminology OR(3)
AHS	115	Medical Terminology OR(3)	CLA	131	Medical Terminology from Greek & Latin(3)
CLA	131	Medical Terminology from Greek & Latin(3)	MIT	217	Medical Office Procedures
MIT	295	Medical Information Technology Capstone			Total 18
MIT	230	Medical Information Management			
MIT MIT	217 227	Medical Office Procedures			Medical Coding - 5107163079
MIT	228	Electronic Medical Record	(Offer	ed by AS	C, BLC, BSC, HZC, HPC, MDC, MYC, OWC, SEC, SKY, SMC,WKC)
		Subtotal 33	OST	110	Document Formatting and Word Processing
			BIO	135	Basic Anatomy and Physiology with Lab**
		Total 40	MIT	103	Medical Office Terminology OR
		Oculification	AHS	115	Medical Terminology OR(3)
		Certificates	CLA MIT	131 104	Medical Terminology from Greek & Latin(3) Medical Insurance
			MIT	204	Medical Coding
		Medical Unit Coordinator - 5107163019	MIT	205	Advanced Medical Coding
(Offer	red at ASC	C, BLC, BSC, ELC, HPC, HZC, MDC, MYC, OWC, SEC, SKY, SMC,			Total 19
		WKC)			
		Available Completely Online	**Stud	ents can fi	alfill the Biology requirement with both BIO 137 and BIO 139.
OST	105	Introduction to Information Systems OR 3			Modical Transcriptionist E1071C2000
CIT	105	Introduction to Computers(3)			Medical Transcriptionist – 5107163089
BIO	135				
	100	Basic Anatomy and Physiology with Laboratory**			BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC)
OST	108	Editing Skills for Office Professionals OR	OST	108	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG	101	Editing Skills for Office Professionals OR	OST ENG	108 101	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC) Editing Skills for Office Professionals OR
ENG OST	101 110	Editing Skills for Office Professionals OR	OST ENG OST	108 101 110	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC) Editing Skills for Office Professionals OR
ENG	101	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3	OST ENG OST OST	108 101 110 210	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC) Editing Skills for Office Professionals OR
ENG OST MIT	101 110 230	Editing Skills for Office Professionals OR	OST ENG OST OST MIT	108 101 110	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT	101 110 230 103	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3	OST ENG OST OST	108 101 110 210 103	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC,WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS	101 110 230 103 115 131 104	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3         Medical Terminology OR       (3)         Medical Terminology from Greek & Latin       (3)         Medical Insurance       3	OST ENG OST OST MIT AHS	108 101 110 210 103 115	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT	101 110 230 103 115 131 104 217	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3         Medical Terminology OR       (3)         Medical Terminology from Greek & Latin       (3)         Medical Insurance       3         Medical Office Procedures       3	OST ENG OST OST MIT AHS CLA	108 101 110 210 103 115 131	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3         Medical Terminology OR       (3)         Medical Terminology from Greek & Latin       (3)         Medical Insurance       3         Medical Office Procedures       3         Medical Office Software       3	OST ENG OST OST MIT AHS CLA MIT	108 101 110 210 103 115 131 106	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT	101 110 230 103 115 131 104 217	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3         Medical Terminology OR       (3)         Medical Terminology from Greek & Latin       (3)         Medical Insurance       3         Medical Office Procedures       3         Medical Office Software       3         Electronic Medical Records       3	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227	Editing Skills for Office Professionals OR       3         Writing I       (3)         Document Formatting and Word Processing       3         Medical Information Management       3         Medical Office Terminology OR       3         Medical Terminology OR       (3)         Medical Terminology from Greek & Latin       (3)         Medical Insurance       3         Medical Office Procedures       3         Medical Office Software       3	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)         Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227	Editing Skills for Office Professionals OR3Writing I(3)Document Formatting and Word Processing3Medical Information Management3Medical Office Terminology OR3Medical Terminology OR(3)Medical Terminology from Greek & Latin(3)Medical Insurance3Medical Office Procedures3Medical Office Software3Electronic Medical Records3Total31	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)         Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT	108 101 110 210 103 115 131 106 206 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT	108 101 110 210 103 115 131 106 206 217 Election	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT OST	108 101 110 210 103 115 131 106 206 217 Elec 103 115 131 104 110	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT MIT	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT AHS CLA MIT AHS CLA MIT OST MIT	108 101 110 210 103 115 131 106 206 217 Ele 103 115 131 104 110 217	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT MIT Offee	101 110 230 103 115 131 104 217 227 228	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT OST	108 101 110 210 103 115 131 106 206 217 Elec 103 115 131 104 110	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR
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ENG OST MIT MIT AHS CLA MIT MIT MIT MIT MIT COffe  OST CIT OST ENG OST	101 110 230 103 115 131 104 217 227 228 ered at ASO 105 105 108 101 110	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT AHS CLA MIT AHS CLA MIT OST MIT MIT	108 101 110 210 103 115 131 106 206 217 Ele 103 115 131 104 110 217 227 228	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC) Editing Skills for Office Professionals OR
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ENG OST MIT MIT AHS CLA MIT MIT MIT MIT MIT COffe  OST CIT OST ENG OST OST MIT	101 110 230 103 115 131 104 217 227 228 red at ASO 105 108 101 110 235 230	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT OST MIT MIT OST CIT OST	108 101 110 210 103 115 131 106 206 217 Ele 103 115 131 104 110 217 227 228 230 240 130 105	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT MIT MIT COffe  OST CIT OST ENG OST OST MIT MIT	101 110 230 103 115 131 104 217 227 228 red at ASO 105 108 101 110 235 230 103	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT OST MIT MIT CST CIT	108 101 110 210 103 115 131 106 206 217 Ele 103 115 131 104 110 217 227 228 230 240 130	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR
ENG OST MIT MIT AHS CLA MIT MIT MIT MIT MIT COffe  OST CIT OST ENG OST OST MIT	101 110 230 103 115 131 104 217 227 228 red at ASO 105 108 101 110 235 230	Editing Skills for Office Professionals OR	OST ENG OST OST MIT AHS CLA MIT MIT MIT AHS CLA MIT OST MIT MIT OST CIT OST	108 101 110 210 103 115 131 106 206 217 Ele 103 115 131 104 110 217 227 228 230 240 130 105	BLC, BSC, GTW, HZC, MDC, MYC, OWC, SEC, SKY, SMC, WKC  Editing Skills for Office Professionals OR

## Office Systems Technology

The Office Systems Technology program is an integrated curriculum, which prepares graduates at the certificate, diploma, and associate degree level. The Office Systems Technology program prepares students to work in an office environment of people, process, and technologies. Job titles may include Administrative Assistant, Office Assistant, Office Manager, and Financial Assistant. These personnel use a variety of office technology and computer-based applications (word processing, electronic mail, desktop publishing, graphics, database, and spreadsheet). They support and help facilitate accurate communication and information exchange to internal and external customers on a timely basis. Technical courses combined with general education courses prepare students for today's workforce and provide a basis for lifelong learning, a necessity for the workforce of the future. Students select an area of specialty from the following tracks: financial assistant, administrative, desktop publishing, and legal. Program graduates are employed in professional office, education, government, businesses, and industries. Graduates may choose to sit for the Certified Professional Secretary Examination or Certified Administrative Professional Examination or Microsoft Office Specialists

Students entering this program will need to have basic computer skills and keyboarding skills. (Refer to Technical Standards for Office Systems Technology Program).

### Associate in Applied Science

#### Office Systems Technology – 5204027039

(Offered at ASC, BLC, ELC, JFC, HPC, MYC, OWC, SKY, SMC, WKC)

**General Education:** 

ENG	101	Writing I	3
MAT	105	Business Mathematics OR	
MAT	110	Applied Mathematics OR	(3)
		Higher Level Quantitative Reasoning Course	
		Heritage/Humanities	
		Oral Communications Course	
		Natural Sciences Course	3-4
		Social/Behavioral Sciences Course***	3
		General Education Credit Hours	18-19
Techi	nical Co	re	
OST	105	Introduction to Information Systems	3
OST	215	Office Procedures	
OST	110	Document Formatting and Word Processing	3
OST	160	Records and Database Management	
OST	210	Advanced Word Processing Application	
OST	240	Software Integration	
OST	235	Business Communications Technology	3
OST	275	Office Management	

\*Association of Collegiate Business Schools and Programs (ACBSP) accredited colleges must require Economics.

#### Administrative Track - 520402701

(Offered at ASC, BLC, ELC, HPC, JFC, MYC, OWC, SKY, SMC) Available Completely Online 101 ACT Higher Level Accounting Course ......(3) OST 220 OST 225

Choose three courses (9 credit hours) approved by program coordinator from the following list:

BAS		Introduction to Business	
ENG	102	Writing II	3

BAS	120	Personal Finance	3
OST	255	Introduction to Business Graphics	3
OST	150	Transcription and Office Technology	3
OST	108	Editing Skills for the Office Professional	
OST	272	Presentation Graphics	3
OST	250	Advanced Desktop Publishing	3
OST	295	Office Systems Technology Internship OR	
COE	199	Cooperative Education	(3)
		Total Administrative Track Credit Hour	18
		Total Credit Hours OST AAS	
		Administrative Track	60-61

#### Desktop Publishing Track - 520402704

(Offered at BLC) Available Completely Online

OST	130	Typography	3
OST	215	Office Procedures	3
OST	225	Introduction to Desktop Publishing	3
OST	250	Advanced Desktop Publishing	3
OST	255	Introduction to Business Graphics	3
OST	272	Presentation Graphics	3
OST	220	Administrative Office Simulation OR	3
OST	295	Office Systems Technology Internship OR	(3)
COE	199	Cooperative Education	(2-3)
		Total Desktop Publishing Track Credit Hours	20-21
		Total Credit Hours OST AAS	

#### Financial Assistant Track - 520402703

Available Completely Online

**Desktop Publishing Track** 

(Offered at BLC)

62-64

ACT	101	Fundamentals of Accounting I OR	3
		Higher Level Accounting Course	(3)
ACT	102	Fundamentals of Accounting II OR	3
		Higher Level Accounting Course	(3)
ACT	279	Computerized Accounting Systems	
Choo	se thre	ee courses (9 hours) from the following list:	
OST	112	Financial Management	3
BAS	160	Introduction to Business	
OST	225	Introduction to Desktop Publishing	3
BAS	120	Personal Finance	
OST	213	Business Calculations for the Office Professional	3
OST	272	Presentation Graphics	3
ENG	102	Writing II	3
OST	295	Office Systems Technology Internship OR	3
COE	199	Cooperative Education	
		Total Financial Assistant Track Credit Hours	18
		Total Credit Hours OST AAS	
		Financial Assistant Track	60-61

#### Legal Administrative Track - 520402705

		(Offered at BLC)	
ACT	101	Fundamentals of Accounting I OR	3
		Higher Level Accounting	(3)
		Additional Accounting (ACC or ACT) course	3
BAS	267	Introduction to Business Law	3
OST	109	Legal Terminology	3
OST	221	Legal Office Simulations	3
MIT	103	Medical Office Terminology OR	
CLA	131	Medical Terminology from Greek and Latin OR	(3)
AHS	115	Medical Terminology	
		Total Legal Administrative	
		Assistant Track Credit Hours	18
		Total Credit Hours OST AAS	
		Legal Administrative Track	60-61

38-39

### **Diplomas**

#### Administrative Assistant - 5204024019

(Offered at ASC, BLC, BSC, ELC, JFC, MYC, SKY, SMC)

	(6	Available Completely Online	OST	108	Editing Skills for the O
	1.0.1		ENG	101	Writing I
	ral Edu		OST	213	Business Calculations f
OST	108	Editing Skills for the Office Professional OR	MAT	105	Business Mathematics
ENG	101	Writing I(3)			Higher Level Quantita
OST	213	Business Calculations for the Office Professional OR			Total General Educ
MAT	105	Business Mathematics OR(3)			
		Higher Level Quantitative Reasoning Course(3)		nical (	Courses
		Total General Education 6	OST	105	Introduction to Inform
Techi	nical Co	262410	ACT	101	Fundamentals of Accou
OST	105	Introduction to Information Systems	1 OF	400	Higher Level Accounting
ACT	101	Fundamentals of Accounting I OR	ACT	102	Fundamentals of Accou
7101	101	Higher Level Accounting Course(3)	ACT	270	Higher Level Accounting
OST	110	Document Formatting and Word Processing	ACT	279	Computerized Accoun
OST	160	Records and Database Management	OST OST	110	Document Formatting
OST	210	Advanced Word Processing Applications	OST	160 215	Records and Database Office Procedures
OST	215	Office Procedures	OST	240	Software Integration
OST	225	Introduction to Desktop Publishing			
OST	235	Business Communications Technology	BAS		ee courses (8-9 hours Introduction to Busine
OST	240	Software Integration	ENG	160 102	*** **
Choo	se thre	e courses (8-9 hours) from the following list:	BAS	120	Writing II Personal Finance
BAS	160	Introduction to Business	OST	255	Introduction to Busine
ENG	102	Writing II	OST	150	Transcription and Office
BAS	120	Personal Finance	OST	108	Editing Skills for the O
OST	255	Introduction to Business Graphics	OST	272	Presentation Graphics.
OST	150	Transcription and Office Technology	OST	250	Advanced Desktop Pul
OST	108	Editing Skills for the Office Professional	OST	295	Office Systems Technol
OST	272	Presentation Graphics	COE	199	Cooperative Education
OST	250	Advanced Desktop Publishing			Total Technical Hou
OST	295	Office Systems Technology Internship OR			m - 1 a - 11 - 77
COE	199	Cooperative Education(2-3)			Total Credit Hours
		Total Technical Hours 35-36			1 1000 1 1
		Total Credit Hours 41-42			Legal Uffice Assist
		Total Credit Hours 41-42			•
			Gene	eral Ed	Legal Office Assist (Offered ucation
		Total Credit Hours 41-42  Desktop Publishing Specialist - 5204024029	<b>Gene</b> OST	e <b>ral Ed</b> 108	(Offered ucation Editing Skills for the C
			OST ENG	108 101	(Offered ucation Editing Skills for the O Writing I
		Desktop Publishing Specialist - 5204024029	OST	108	(Offered ucation Editing Skills for the O Writing I Business Calculations f
Gene	eral Edu	Desktop Publishing Specialist - 5204024029  (Offered at BLC)  Available Completely Online	OST ENG	108 101	(Offered ucation  Editing Skills for the O Writing I Business Calculations f Higher Level Quantitat
	ral Edu	Desktop Publishing Specialist - 5204024029  (Offered at BLC)  Available Completely Online	OST ENG	108 101	(Offered ucation Editing Skills for the O Writing I Business Calculations f
OST	108	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online Editing Skills for the Office Professional OR	OST ENG OST	108 101 213	(Offered  ucation  Editing Skills for the O Writing I  Business Calculations f Higher Level Quantitat  Total General Educa
		Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Ication Editing Skills for the Office Professional OR	OST ENG OST	108 101 213	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantita Total General Educa
OST ENG	108 101	Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST Tech	108 101 213 nical C	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantita Total General Educa Courses Introduction to Inform
OST ENG OST	108 101 213	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Ication Editing Skills for the Office Professional OR	OST ENG OST	108 101 213 nical (	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantita Total General Educa Courses Introduction to Inform
OST ENG OST	108 101 213	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Ication  Editing Skills for the Office Professional OR	OST ENG OST Tech	108 101 213 nical C	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educations Courses Introduction to Inform Fundamentals of Accountation
OST ENG OST MAT	108 101 213 105	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST Tech OST ACT	108 101 213 nical ( 105 101	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educations Courses Introduction to Inform Fundamentals of Accounties
OST ENG OST MAT	108 101 213	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST Tech: OST ACT BAS	108 101 213 <b>mical (</b> 105 101	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitat Total General Education Courses Introduction to Inform Fundamentals of Accountify Higher Level of Accountified to Busine
OST ENG OST MAT	108 101 213 105	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST Tech OST ACT BAS OST	108 101 213 <b>mical C</b> 105 101 267 109	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educations Courses Introduction to Inform Fundamentals of Accounting Higher Level of Accounting to Busine Legal Terminology
OST ENG OST MAT Techn OST OST	108 101 213 105 nical Ce	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST Tech OST ACT BAS OST OST	108 101 213 mical C 105 101 267 109 221	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educa Courses Introduction to Inform Fundamentals of Accounting Higher Level of Accounting Legal Terminology Legal Office Simulation
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OST ENG OST MAT  Techi OST OST OST OST	108 101 213 105 <b>nical Co</b> 105 110 130 160	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST	108 101 213 mical C 105 101 267 109 221 215 110 160 235	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educations Fundamentals of Accounting Fundamentals of Accounting Legal Terminology Legal Office Simulation Office Procedures Document Formatting
OST ENG OST MAT  Techn OST OST OST OST	108 101 213 105 <b>mical Co</b> 105 110 130 160 210	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST	108 101 213 mical C 105 101 267 109 221 215 110 160 235 240	(Offered ucation  Editing Skills for the O Writing I
OST ENG OST MAT  Techn OST OST OST OST OST OST	108 101 213 105 <b>mical Co</b> 105 110 130 160 210 215	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST OST	108 101 213 mical C 105 101 267 109 221 215 110 160 235 240 ose one	(Offered ucation  Editing Skills for the O Writing I  Business Calculations f Higher Level Quantitar Total General Educations Fundamentals of Accounting the second introduction to Inform Fundamentals of Accounting Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Software Integration Exercise (3 hours) from the course (3 hours) from the course (3 hours) from the course (4 to the course (4 to the course (5 to the course (5 to the course (5 to the course (6 to the course (7 to the c
OST ENG OST MAT  Techn OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST Choo BAS	108 101 213 nical C 105 101 267 109 221 215 110 160 235 240 ose one	(Offered ucation Editing Skills for the O Writing I Business Calculations f Higher Level Quantitar Total General Educations Fundamentals of Accounting the service of Accounting the service of Account to Busine Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Software Integration Ecourse (3 hours) from Introduction to Busine Busines Course (3 hours)
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST OST OST OST Choc BAS ENG	108 101 213 mical C 105 101 267 109 221 215 110 160 235 240 ose one 160 102	(Offered ucation  Editing Skills for the Courses  Introduction to Information of Account Introduction to Busine Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communication of Busine Introduction of Courses Document Formatting Records and Database Business Communication The course (3 hours) from Introduction to Busine Writing II
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST Choo BAS ENG BAS	108 101 213 mical C 105 101 267 109 221 215 110 160 235 240 ose one 160 102 120	(Offered ucation  Editing Skills for the C Writing I  Business Calculations f Higher Level Quantita Total General Educations  Entroduction to Information of Accounting I  Fundamentals of Accounting Legal Terminology  Legal Office Simulation Office Procedures  Document Formatting Records and Database Business Communicating Software Integration  Course (3 hours) from Introduction to Busine Writing II  Personal Finance
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST Choo BAS ENG BAS OST	108 101 213 mical C 105 101 267 109 221 215 110 160 235 240 ose one 160 102 120 255	(Offered ucation  Editing Skills for the O Writing I
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250 255	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Betting Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST Choo BAS ENG BAS OST OST	108 101 213 nical C 105 101 267 109 221 215 110 160 235 240 ose one 160 102 120 255 150	(Offered ucation  Editing Skills for the C Writing I  Business Calculations f Higher Level Quantita Total General Educa  Courses  Introduction to Inform Fundamentals of Accounting the Level of Accounting the Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Software Integration  The course (3 hours) from Introduction to Busine Writing II Personal Finance Introduction to Busine Transcription and Office Total Position and Office Transcription Introduction to Busine Transcription and Office Total Transcription Introduction to Busine Transcription and Office Total Transcription Introduction to Busine Transcription and Office Transcription Introduction to Busine Transcription Introduction to Busine Transcription Introduction Introd
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250 255 272	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Ication  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST Choo BAS ENG BAS OST OST	108 101 213 nical C 105 101 267 109 221 215 110 160 235 240 0se one 160 102 120 255 150 108	(Offered ucation  Editing Skills for the Courses  Introduction to Information of the Courses  Introduction to Information of the Course of the
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250 255 272 220	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST Choo BAS ENG BAS OST OST OST	108 101 213 nical C 105 101 267 109 221 215 110 160 235 240 0se one 160 102 120 255 150 108 272	(Offered ucation  Editing Skills for the C Writing I  Business Calculations f Higher Level Quantita Total General Educations  Introduction to Inform Fundamentals of Account introduction to Busine Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Records and Database Business Communication Records and Database Business Commu
OST ENG OST MAT  Technost OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250 255 272 220 295	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST OST Choo BAS ENG BAS OST OST OST OST	108 101 213 213 213 215 101 267 109 221 215 110 160 235 240 255 150 108 272 250	(Offered ucation  Editing Skills for the O Writing I  Business Calculations f Higher Level Quantitar Total General Educations of Higher Level of Account Introduction to Busine Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Software Integration course (3 hours) from Introduction to Busine Writing II Personal Finance Introduction to Busine Transcription and Office Editing Skills for the Opresentation Graphics. Advanced Desktop Pul
OST ENG OST MAT  Techn OST OST OST OST OST OST OST OST OST OST	108 101 213 105 nical Co 105 110 130 160 210 215 225 235 240 250 255 272 220	Desktop Publishing Specialist - 5204024029  (Offered at BLC) Available Completely Online  Editing Skills for the Office Professional OR	OST ENG OST OST ACT BAS OST OST OST OST Choo BAS ENG BAS OST OST OST	108 101 213 nical C 105 101 267 109 221 215 110 160 235 240 0se one 160 102 120 255 150 108 272	(Offered ucation  Editing Skills for the C Writing I  Business Calculations f Higher Level Quantita Total General Educations  Introduction to Inform Fundamentals of Account introduction to Busine Legal Terminology Legal Office Simulation Office Procedures Document Formatting Records and Database Business Communicating Records and Database Business Communication Records and Database Business Commu

#### Financial Assistant - 5204024049

(Offered at BLC, BSC, ELC, JFC, SKY) Available Completely Online

Gene	ral Edu	ucation	
OST	108	Editing Skills for the Office Professional OR	3
ENG	101	Writing I	
OST	213	Business Calculations for the Office Professional OR .	
MAT	105	Business Mathematics OR	
		Higher Level Quantitative Reasoning Course	
		Total General Education	6
Tech	nical C	ourses	
OST	105	Introduction to Information Systems	3
ACT	101	Fundamentals of Accounting I OR	
		Higher Level Accounting Course	
ACT	102	Fundamentals of Accounting II OR	
		Higher Level Accounting Course	
ACT	279	Computerized Accounting Systems	
OST	110	Document Formatting and Word Processing	
OST	160	Records and Database Management	
OST	215	Office Procedures	
OST	240	Software Integration	3
Choo	se thre	ee courses (8-9 hours) from the following list	
BAS	160	Introduction to Business	3
ENG	102	Writing II	3
BAS	120	Personal Finance	3
OST	255	Introduction to Business Graphics	
OST	150	Transcription and Office Technology	
OST	108	Editing Skills for the Office Professional	3
OST	272	Presentation Graphics	3
OST	250	Advanced Desktop Publishing	3
OST	295	Office Systems Technology Internship OR	3
COE	199	Cooperative Education	(2-3)
		Total Technical Hours	32-33

### e Assistant - 5204024059

(Offered at BLC)

Gene	rai Edi	ucation	
OST	108	Editing Skills for the Office Professional OR	3
ENG	101	Writing I	(3)
OST	213	Business Calculations for the Office Professional OR	3
		Higher Level Quantitative Reasoning Course	(3)
		Total General Education	6
Tech	nical C	Courses	
OST	105	Introduction to Information Systems	3
ACT	101	Fundamentals of Accounting I OR	3
		Higher Level of Accounting Course	(3)
BAS	267	Introduction to Business Law	3
OST	109	Legal Terminology	3
OST	221	Legal Office Simulations	3
OST	215	Office Procedures	
OST	110	Document Formatting and Word Processing	3
OST	160	Records and Database Management	3
OST	235	Business Communications Technology	3
OST	240	Software Integration	3
Choo	se one	course (3 hours) from the following:	
BAS	160	Introduction to Business	3
ENG	102	Writing II	3
BAS	120	Personal Finance	3
OST	255	Introduction to Business Graphics	3
OST	150	Transcription and Office Technology	3
OST	108	Editing Skills for the Office Professional	
OST	272	Presentation Graphics	3
OST	250	Advanced Desktop Publishing	3
OST	295	Office Systems Technology Internship OR	
COE	199	Cooperative Education	
		Total Technical Hours	33
		Total Credit Hours	39
			107

		Office Assistant - 5204024039			Data Entry Operator - 5204023079
	(Offe	ered at ASC, BLC, BSC, ELC, JFC, MYC, SEC, SKY, SMC) Available Completely Online	(Offe	ered at A	ASC, BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)
•	151				Available Completely Online
	ral Edu		OST	105	Introduction to Information Systems
OST ENG	108 101	Editing Skills for the Office Professional- OR	OST	110	Document Formatting and Word Processing
OST	213	Business Calculations for the Office Professional OR			Total Credit Hours 6
MAT	105	Business Mathematics OR(3)			
1717.11	103	Higher Level Quantitative Reasoning Course(3)			Dockton Dublishing F20/022000
		Total General Education 6			Desktop Publishing - 5204023099
					(Offered at BLC, BSC, SEC)
Tech	nical C	ourses			Available Completely Online
OST	105	Introduction to Information Systems	ENG	101	Writing I OR
OST	110	Document Formatting and Word Processing	OST	108	Editing Skills for the Office Professional(3)
OST	160	Records and Database Management	OST Mat	213 105	Business Calculations for the Office Professional OR
OST	210	Advanced Word Processing Applications	MAI	103	Higher Level Quantitative Reasoning Course(3)
OST	215	Office Procedures	OST	105	Introduction to Information Systems
OST	235	Business Communications Technology	OST	110	Document Formatting and Word Processing
OST	240	Software Integration	OST	130	Typography
Choo	se thre	e courses (9 hours) from the following list:	OST	160	Records and Database Management
BAS	160	Introduction to Business	OST	225	Introduction to Desktop Publishing
ENG	102	Writing II	OST	255	Introduction to Business Graphics
BAS	120	Personal Finance	OST	272	Presentation Graphics
OST	255	Introduction to Business Graphics			Total Credit Hours 27
OST	150	Transcription and Office Technology			
OST	108 272	Editing Skills for the Office Professional			Financial Assistant Clerk - 5204023129
OST OST	250	Advanced Desktop Publishing			
OST	295	Office Systems Technology Internship OR			(Offered at BLC, BSC, HPC, JFC, OWC, SEC, SKY)
COE	199	Cooperative Education(3)	OCT	105	Available Completely Online
		Total Technical Hours 30	OST	105	Introduction to Information Systems
			ACT	101	Fundamentals of Accounting I OR
		Total Credit Hours 36	OST	108	Higher Level Accounting Course(3) Editing Skills for the Office Professional OR
		A 115 1	ENG	101	Writing I(3)
		<i>Certificates</i>	OST	110	Document Formatting and Word Processing
			OST	160	Records and Database Management
		Administrative - 5204023039	OST	213	Business Calculations for the Office Professional OR 3
	(Offered	at ASC, BLC, BSC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)	MAT	105	Business Mathematics OR(3)
	( 3)	Available Completely Online			Higher Level Quantitative Reasoning Course(3)
OST	108	Editing Skills for the Office Professional OR			Total Credit Hours 18
ENG	101	Writing I(3)			
OST	105	Introduction to Information Systems			Financial Assistant Trainee - 5204023139
OST	213	Business Calculations for the Office Professional OR 3			
MAT	105	Business Mathematics OR(3)			(Offered at BLC, BSC, HPC, JFC, OWC, SEC, SKY)
		Higher Level Quantitative Reasoning Course(3)	OCT	105	Available Completely Online
OST	110	Document Formatting and Word Processing	OST	105	Introduction to Information Systems
OST	215	Office Procedures	ACT	101	3
OST	240	Software Integration	пст	101	Higher Level Accounting Course(3)
OST	235	Business Communications Technology	OST	110	Document Formatting and Word Processing
OST	160	Records and Database Management	OST	213	Business Calculations for the Office Professional OR 3
ACT	101	Fundamental of Accounting I OR	MAT	105	Business Mathematics OR(3)
OST	150	Higher level Accounting Course			Higher Level Quantitative Reasoning Course(3)
031	130	Total Credit Hours 30			Total Credit Hours 12
		Pacie Rusiness Presentation 520/022110			Financial Record Keeper - 5204023069
		Basic Business Presentation - 5204023119			(Offered at BLC, BSC, JFC, OWC, SEC, SKY)
		(Offered at BLC, SEC)			
OOT	105	Available Completely Online			Available Completely Online
OST	105	Introduction to Information Systems	OST	105	Introduction to Information Systems
OST	108	Editing Skills for the Office Professional OR	ACT	101	Fundamentals of Accounting I OR
ENG	101	Writing I			Higher Level Accounting Course(3)
OST OST	225 255	Introduction to Desktop Publishing			Higher Level Accounting Course
OST	255 272	Introduction to Business Graphics	OST	108	Editing Skills for the Office Professional OR
001	-14	Total Credit Hours 15	ENG	101	Writing I(3)
		19	OST	110	Document Formatting and Word Processing
			OST	112	Financial Management OR
					Course Approved by Program Coordinator(3)

OST	160	Records and Database Management			Associate in Applied Science
OST Mat	213 105	Business Calculations for the Office Professional OR			
101/11	103	Higher Level Quantitative Reasoning Course(3)		Busin	ess Management and Marketing Core – 5202017139
OST	215	Office Procedures			(Offered at BLC)
OST	240	Software Integration		151	<u>~</u>
051	210	Total Credit Hours 30			acation
		Total Credit Hours	COM	181	Basic Public Speaking* OR
			COM	252	Introduction to Interpersonal Communications*(3)
		Integrated Office Skills - 5204023059	ENG	101	Writing I*
(	Offered a	t ASC, BLC, BSC, ELC, HPC, JFC, OWC, SEC, SKY, SMC,WKC)	ENG	102	Writing II*
OST	108	Editing Skills for the Office Professional OR	ENG	203	Business Writing
ENG	101	Writing I(3)	ECO	201	Principles of Microeconomics*
OST	105	Introduction to Information Systems			College Algebra or Higher*
OST	110	Document Formatting and Word Processing			Heritage/Humanities*
OST	160	Records and Database Management O			Natural Sciences Course *
OST	210	Advanced Word Processing Applications			Subtotal 24
OST	215	Office Procedures	*Satisfi	es Genera	l Education requirement for AAS degree
OST	240	Software Integration			
		Total Credit Hours 21		nical C	
			MGT	101	Quality Management Principles
		Laral Decentionist 520/0221/0	MGT	160	Introduction to Business
		Legal Receptionist - 5204023149	MGT	240	Business Ethics and Self-Management
		(Offered at BLC, MYC, SEC,WKC)	MKT	282	Principles of Marketing
OST	105	Introduction to Information Systems	MGT	283	Principles of Management
OST	108	Editing Skills for the Office Professional OR	ACC	201	Financial Accounting
ENG	101	Writing I(3)	ACC	202	Managerial Accounting
OST	110	Document Formatting and Word Processing	CIT	130	Productivity Software OR
OST	160	Records and Database Management	IMD OST	210 240	Integrated Information Processing OR(3)
OST	109	Legal Terminology	031	240	Software Integration OR(3) Microsoft MCAS certification
		Total Credit Hours 15			Subtotal 24
					Subtotal
		Receptionist - 5204023089			Core Subtotal 48
(Offe	ered at A	SC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  Available Completely Online			Management Track - 520201711
		Available Completely Online			Management Track - 520201711
Off OST OST	ered at A. 105 108	Available Completely Online Introduction to Information Systems			Management Track - 520201711 (Offered at BLC)
OST	105	Available Completely Online	Requ		(Offered at BLC)
OST OST	105 108	Available Completely Online Introduction to Information Systems	<b>Requ</b> MGT	ired: 200	(Offered at BLC)  Small Business Management OR
OST OST ENG	105 108 101	Available Completely Online Introduction to Information Systems	MGT MGT	200 256	(Offered at BLC)  Small Business Management OR
OST OST ENG OST	105 108 101 160	Available Completely Online Introduction to Information Systems	MGT MGT MGT	200 256 274	(Offered at BLC)  Small Business Management OR
OST OST ENG OST	105 108 101 160	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT	200 256 274 287	(Offered at BLC)  Small Business Management OR
OST OST ENG OST OST	105 108 101 160 110	Available Completely Online         Introduction to Information Systems       3         Editing Skills for the Office Professional OR       3         Writing I       (3)         Records and Database Management       3         Document Formatting and Word Processing       3         Total Credit Hours       12	MGT MGT MGT MGT MGT	200 256 274 287 284	Small Business Management OR
OST OST ENG OST OST	105 108 101 160 110	Available Completely Online         Introduction to Information Systems       3         Editing Skills for the Office Professional OR       3         Writing I       (3)         Records and Database Management       3         Document Formatting and Word Processing       3         Total Credit Hours       12	MGT MGT MGT MGT	200 256 274 287 284	(Offered at BLC)  Small Business Management OR
OST OST ENG OST OST	105 108 101 160 110	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267	Small Business Management OR
OST OST ENG OST OST	105 108 101 160 110	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3
OST OST ENG OST OST	105 108 101 160 110 Busir	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT Choo	200 256 274 287 284 267 <b>se a to</b>	Small Business Management OR
OST OST ENG OST OST	105 108 101 160 110 Busin	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT Choo	200 256 274 287 284 267 <b>se a to</b> 120	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3
OST OST ENG OST OST	105 108 101 160 110 Busin Susiness variety of	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT Choo MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3
OST OST ENG OST OST The B for a with a	105 108 101 160 110 Busin Susiness variety of a foundary	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT Choo MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3
OST OST ENG OST OST The B for a with a curric	105 108 101 160 110  Busin  Susiness variety car foundarulum is ntly emple	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT Choo MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3
OST OST ENG OST OST The B for a with a curric	105 108 101 160 110  Busin  Susiness variety car foundarulum is ntly emple	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT Choo MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:       3         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Self-Management       3
OST OST ENG OST OST  The B for a with a curric currer specia	105 108 101 160 110  Business variety of a foundarulum is ntly emplicies by	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT Choo MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3
OST OST ENG OST OST  The B for a with a curric currer special ment	105 108 101 160 110  Business variety car foundaculum is ntly emplices by Track pr	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3
OST OST ENG OST OST  The B for a with a curric special ment' edge a	105 108 101 160 110  Business variety of foundaculum is ntly emplicies by Track prand skill	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:       3         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3         Retail Management       3
OST OST ENG OST OST  The B for a with a curric special ment edge a Market	105 108 101 160 110  Business variety of a foundary culum is intly emplicates by Track prand skilleting and	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:       9         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3
OST OST ENG OST OST  The B for a with a curric special ment edge a Market management and a curric special ment a curric special ment and a curric special ment a curric special ment and a curric special ment a curric special ment and a curric special ment and a curric special ment a curric specia	105 108 101 160 110  Business variety of foundary culum is ntly emplicates by Track pring and skill eting and gement,	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3
OST OST ENG OST OST  The B for a with a curric special ment edge a Market manage The B	105 108 101 160 110  Business variety of a founda culum is ntly emplices by Track printly emplices by	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 299	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3         Selected Topics in Marketing: (Track Topic)       1-3
OST OST ENG OST OST  The B for a with a curric specia ment' edge a Market manage The B may in	105 108 101 160 110  Business variety of foundary emplizes by Track prand skill eting and gement, Real Estanclude s	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 299 275	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Personal Selling       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3         Selected Topics in Marketing: (Track Topic)       1-3         Workplace Management       3
OST OST ENG OST OST  The B for a with a curric specia ment' edge a Market manage The B may in valuate	105 108 101 160 110  Business variety of foundary culum is ntly emplicated by Track prand skill eting and gement, leal Estanclude scion, and	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 299 275 199	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3         Selected Topics in Marketing: (Track Topic)       1-3         Workplace Management       3         Cooperative Education: Business Technology       1-4
OST OST ENG OST OST  The B for a with a curric special ment' edge a Market manage The R may in valuat provide	Business variety of a foundary fullizes by Track prand skill eting and gement, teal Estanclude stion, and desthe better the stion, and the stion of	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 299 275 199 202	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3         Selected Topics in Marketing: (Track Topic)       1-3         Workplace Management       3         Cooperative Education: Business Technology       1-4         Principles of Macroeconomics       3
OST OST ENG OST OST  The B for a v with a curric currer specia ment' edge a Marke mana The R may in valuat provid ious e	Business variety of a foundary fullizes by Track prand skill eting and gement, teal Estanclude stion, and desthe lemploym	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>se a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 275 199 202 100	(Offered at BLC)         Small Business Management OR       3         Operations Management       (3)         Human Resource Management OR       3         Supervisory Management       (3)         Applied Management Skills       3         Introduction to Business Law       3         tal of 6 hours from the following:         Personal Finance       3         Small Business Management       3         Operations Management       3         Project Management       3         Human Resource Management       3         Supervisory Management       3         Self-Management       3         Advertising and Promotion       3         Retail Management       3         Buying and Merchandising       3         Selected Topics in Management: (Track Topic)       1-3         Selected Topics in Marketing: (Track Topic)       1-3         Workplace Management       3         Cooperative Education: Business Technology       1-4         Principles of Macroeconomics       3         Real Estate Principles I       3
OST OST ENG OST OST OST OST The B for a with a curric currer special ment edge a Markot manag The B may in valuat provide ious e must	Business variety of a foundary business by Track prand skill eting and gement, feeal Esta include stion, and dest the lamploym complete	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>see a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 275 199 202 100 120	Small Business Management OR
OST OST ENG OST OST OST OST The B for a with a curric currer special ment edge a Markot manag The B may in valuat provide ious e must	Business variety of a foundary business by Track prand skill eting and gement, feeal Esta include stion, and dest the lamploym complete	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>see a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 275 199 202 100 120 120	Small Business Management OR
OST OST ENG OST OST OST OST The B for a with a curric currer special ment edge a Marko manag The B may in valuat provicious e must	Business variety of a foundary business by Track prand skill eting and gement, feeal Esta include stion, and dest the lamploym complete	Available Completely Online Introduction to Information Systems	MGT MGT MGT MGT MGT MGT MGT MGT MGT MGT	200 256 274 287 284 267 <b>see a to</b> 120 200 256 258 274 287 288 155 290 291 293 299 275 199 202 100 120	Small Business Management OR

SOC

101

Subtotal

Total

18-19 66-67

Introduction to Sociology ......(3)

		Marketing and Retailing Track - 520201712		EQM PSY	246 110	Current Trends in the Equine Industry
		(Offered at BLC)		MGT	101	Quality Management Principles
Requ						Total 24
MKT	155	Personal Selling				
MKT	290	Advertising and Promotion			Real	Estate Pre-Brokerage Management – 5202013409
MKT	291 293	Retail Management			itoui	(Offered at BLC)
MKT MGT	267	Buying and Merchandising		REA	100	Real Estate Principles I
				REA	220	Brokerage Management
		ours from the following:	2	REA	230	Real Estate Law
MGT MGT	120 200	Personal Finance				Subtotal 9
MGT	258	Small Business Management Project Management				
MGT	288	Self-Management		Choo		ours from the following:
MKT	299	Selected Topics in Business Management		REA	120	Real Estate Marketing
		and Marketing (Track Topic)	1-3	REA	121	Appraising
COE	199	Cooperative Education: Business Management		REA	122	Construction and Blueprints
		and Marketing		REA REA	201 202	Property Management
ECO	202	Principles of Macroeconomics		REA	225	Real Estate Financing
		Subtotal	18-19	112.1		Subtotal 9
		Total	66-67			
				Addi	tional	General Education Requirements:
		Deal Estate Management Track 520201712		Choo	se 6 ho	ours:
		Real Estate Management Track – 520201713		PSY	110	General Psychology
		(Offered at BLC)		ECO	201	Principles of Microeconomics
Requ	ired:			ACC	201	Financial Accounting
REA	100	Real Estate Principles I	3	CIT	130	Productivity Software
REA	121	Appraising	3			Subtotal 6
REA	225	Real Estate Finance				Total 24
REA	230	Real Estate Law	3			
Choo	se 6 h	ours from the following:				Deal Fatata Dua Licensina F015010000
REA	120	Real Estate Marketing				Real Estate Pre-Licensing – 5215013029
REA	122	Construction and Blueprints				(Offered at BLC)
REA	200	Real Estate Principles II		REA	100	Real Estate Principles I
REA REA	201 202	Property Management		REA	120	Real Estate Marketing
REA	220	Real Estate Brokerage Management				Total 6
COE	199	Cooperative Education: Business Management		Choo	se two	(2) from the following:
		and Marketing	1-4	REA	122	Construction and Blueprints
		Subtotal	18-19	REA	220	Brokerage Management
		Total	66-67	REA	225	Real Estate Finance
		iotai	00-07	REA	230	Real Estate Law
		F : M . T . F00004740				Total 6
		Equine Management Track – 520201710				Total 12
		(Offered at BLC)				
Requ	ired:					
	100	Introduction to Equine Studies	3		ſ	Civil Engineering Technology
EQM	120	Introduction to Commercial Breeding Practices			_	THE ENGINEER TOURINGES
EQM	140	Equine Business Management I		The C	- 'ivil Eng	sineering Technology program is an Associates of Applied
EQM	240	Equine Business Management II				rineering Technology program is an Associates of Applied ram designed to offer students the training necessary to
EQM	242	Equine Law				ers in civil engineering technology fields. Career options
EQM	246	Current Trends in the Equine Industry				rials testing, commercial, residential and highway surveying;
EQM	250	Equine PracticumSubtotal	18			truction management; construction management; construc-
		Subtotal	10			on; construction documentation; construction site design
		Total	66			ter management.
				and w	aste wa	ter management.
		Certificates		The C	Civil Eng	tineering Technology Program will focus on the field tasks
						aspects of construction.
		Equine Management – 5202013399				1
		(Offered at BLC, HEC)				Associate in Applied Science
Room	irod.	\ \(\omega\)				ποσοσιαίο τη πρριιού συτοπού
Requ: EQM	100	Introduction to Equine Studies	3			Civil Engineering Technology - 1502017019
EQM	120	Introduction to Commercial Breeding				(Offered at BLC, BSC)
EQM	140	Equine Business Management I		-		(Offered at BLC, BSC)
MGT	160	Introduction to Business		Requ		117 19
EQM	240	Equine Business Management II		ENG ENG	101 102	Writing I*
EQM	242	Equine Law	3	EING	104	,, ricing ii

0.15	400				0 - 1/2 1 - 10 - 27 - 10
CAD	100	Introduction to Computer-Aided Design OR	Area 2	2 =	Social/Behavioral Sciences, Natural Sciences, or Quantitative
ACH	185	Computer-Aided Drafting I(3)			Reasoning
		Heritage/Humanities*			Subtotal 6
MA	109	College Algebra*			
		Oral Communications Course*	Tech	nical C	ourses:
PHY	211	General Physics*5			Computer/Digital Literacy course OR
		Social/Behavioral Sciences Course*			demonstrated competency 0-3
			CRT	100	Introduction to Collision Repair
Core			CRT	130	Non-Structural Analysis and Damage Repair
ACH	160	Building Materials and Construction I	CRT	131	
ACH	225	Structures			Non-Structural Analysis and Damage Repair Lab
CE	211	Surveying4	CRT	150	Painting and Refinishing
CET	150	Civil Engineering Graphics	CRT	151	Painting and Refinishing Lab6
CET	200	Civil Engineering Materials	CRT	230	Structural Analysis and Damage Repair 6
CET	210	Structural Analysis and Design	CRT	231	Structural Analysis and Damage Repair Lab6
			CRT	250	Mechanical and Electrical Components
CET	220	Intermediate Surveying	CRT	251	Mechanical and Electrical Components Lab
CET	260	Hydrology and Drainage	0111		Subtotal 50-53
MA	112	Trigonometry			Subtotal 30-33
		Elective			Total Credits 56-59
		Technical Electives9			30 37
		Subtotal 40	Door	mmar	ded Program Flectives
		TO			ded Program Electives
		Total 67	CRT	198	Practicum OR(1)
			CRT	199	Cooperative Education(1)
Tech	nical El	lectives**	CRT	298	Advanced Practicum OR(2)
			CRT	299	Advanced Cooperative Education(2)
ACH	100	Construction Documents I			
ACH	150	Construction Documents II			<i>Certificates</i>
ACH	161	Building Materials and Construction II			A. 11.1AR1AA
ACH	285	Computer-Aided Drafting II			Automotive Deinter 4700000000
ACH	290	Building Codes I			Automotive Painter - 4706033049
ACH	291	Construction Management	((	Offered at	BLC, BSC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)
ACH	292			ω	-
		Building Codes II	Tech	nical C	ourses:
ACH	294	Specification Writing	CRT	100	Introduction to Collision Repair
ACH	297	Estimating Techniques	CRT	130	Non-Structural Analysis and Damage Repair
ACH	298	Computer 3D Modeling	CRT	131	Non-Structural Analysis and Damage Repair Lab
CAD	200	Intermediate Computer-Aided Design4	CRT	150	Painting and Refinishing
CET	280	Highway Design			
CET	295	Independent Problems	CRT	151	Painting and Refinishing Lab
			CRT	230	Structural Analysis and Damage Repair 6
COE	199	Cooperative Education: CET	CRT	231	Structural Analysis and Damage Repair Lab
GIS	110	Spatial Data Analysis and Map Interpretation			Total Credits 38
GIS	120	Introduction to Geographic Information Systems			
GIS	210	Advanced Topics in GIS			
GLY	220	Principles of Physical Geology4			Automotive Painter Helper - 4706033029
		-	((	Offered at	BLC, BSC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)
* Satisti	ies Genera	al Education requirement for AAS degree	( )	Merea ai	ble, bse, 61 v, 112e, ji e, mie, ovie, sle, ski, sme, v ke)
**Othe	er course(s	s) approved by program coordinator	Requ	uired:	
			CRT	100	Introduction to Collision Repair
	1	Calliaian Danaiu Taahnalaau	CRT	150	Painting and Refinishing6
		Collision Repair Technology	CRT	151	Painting and Polinishing Lah
		oomoron noban roomioroby	CKI	131	Painting and Refinishing Lab
_					Total Credits 14
From	repairin	g small dents to rebuilding the bodies of wrecked or dam-			
aged v	ehicles,	this program maintains the current commercial standards.			Collision Donoir Holnor 4706022050
		aught the types of materials used in filler compounds, the			Collision Repair Helper - 4706033059
		0 71	((	Offered at	BLC, BSC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)
		emical make-up of paints used to refinish, welding and			•
	~ ~	dures, design and installation of trim, cost estimating and		uired:	- 1
prepai	ration fo	or finish work. All are skills applied in actual jobs performed	CRT	100	Introduction to Collision Repair
	p assign				Electives (Collision Repair Courses with the
	1811				exception of CRT 150 and CRT 151)
Progr	occion ir	the Collision Repair Technology program is contingent			Total Credits 14
		the Collision Repair Technology program is contingent			
		ment of a grade of "C" or better in each course and mainte-			
nance	of a 2.0	cumulative grade point average.			Collision Repairer – 4706033109
		Ninlama	a=-	100	(Offered at BLC, BSC, GTW, OWC, SEC, SKY)
		Diploma	CRT		Introduction to Collision Repair
		•	CRT	130	Non-Structural Analysis and Damage Repair 6
		Collision Repair Technician - 4706034019	CRT	131	Non-Structural Analysis and Damage Repair Lab 6
/~	· CC 1		CRT :	150	Painting and Refinishing6
(O)	ffered at	BLC, BSC, GTW, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)	CRT		Painting and Refinishing Lab6
Gene	ral Edu	ication Courses:	CRT 2		Structural Analysis and Damaga Panair
					Structural Analysis and Damage Repair
Area 1	_	Written Communication, Oral Communications, or	CRT 2		Structural Analysis and Damage Repair Lab
		Humanities/Heritage	CRT 2		Mechanical and Electrical Components6
			CRT 2	251	Mechanical and Electrical Components Lab 6

**Total Credits** 

## **Computer Aided Drafting and Design**

A computer aided drafter and designer is a technical specialist with broad-based skills for architectural, civil, mechanical, and manufacturing fields. In this program, the students are taught manual drafting techniques and 2D and 3D CAD. Specific skills taught include, but are not limited to, lettering, geometric construction, orthographic projections, dimensioning and tolerancing, and related technical processes. These skills are required to transform specifications and instructions of architects, designers, and engineers into complete and precise drawings. The drafter is a skilled technician with a thorough understanding of the graphic language and is an indispensable contributor to the engineering design team.

contir cal an	ngent up d mathe	In the Computer Aided Drafting and Design program is soon achievement of a grade of "C" or greater in each technical tension course with maintenance of a 2.0 cumulative grade or above (on a 4 scale).	
		Associate in Applied Science	
	Co	omputer Aided Drafting and Design - 1513017029 (Offered at BLC, BSC, ELC)	
Gene	ral Edu	ucation:	
ENG	101	Writing I	
		Quantitative Reasoning (MAT 105 excluded)	
		Natural Sciences	
		Social/Behavioral Sciences	
		Heritage/Humanities	
		Oral Communications	
		Subtotal 18	5
Tech	nical C	ore:	
10011		Computer/Digital Literacy course OR	
		demonstrated competency 0-3	3
CAD	100	Introduction to Computer Aided Design	
CAD	102	Drafting Fundamentals	
CAD	112	Engineering Graphics	
CAD	130	Descriptive Geometry	
CAD	200	Intermediate Computer Aided Design	
CAD	201	Parametric Modeling	-
		Subtotal 23-26	
by com	pleting a o	er/Digital Literacy must be demonstrated either by competency exam or computer /digital literacy course.	
recii	ilicai E	Choose 19 credits from the technical electives list	)
		Subtotal 19	
		Total Credits 60-63	3
Tech	nical Fl	lectives: (This list is not all inclusive, other courses	
		en as approved by the program coordinator such as	
		h prefix ACH, BRX, CAR, SMT, and PLW.)	
CAD	108	Introduction to Surveying.	3
CAD	120	Introduction to Architecture	
CAD	150	Programming in CAD	
CAD	212	Industrial Drafting Processes	
CAD	222	Mechanical Design	
CAD	220	Architectural Design	
CAD	230	Construction Techniques	
CAD	240	Advanced Dimensioning and Measurement	
CAD	252	Commercial Detailing	
CAD	262	Working Drawings	
CAD	202	The state of the second	r

Industrial Applications .......4

Special Problems ...... 1-4

Practicum ...... 1-3

Cooperative Experience ...... 1-3

### Diploma

#### Computer Aided Drafting and Design - 1513014049

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, HPC, JFC, MYC, OWC, SEC, SMC, WKC)

		Available Completely Online
Gene	ral Educ	cation:
	Area 1:	Written Communication, Oral Communications or
	Area 2:	Humanities/Heritage       3         Quantitative Reasoning (MAT 105 excluded)       3         Subtotal       6
Techi	nical Co	re:
reem	neur co	Computer/Digital Literacy course 0-3
CAD	100	Introduction to Computer Aided Design
CAD	102	Drafting Fundamentals
CAD	112	Engineering Graphics
CAD	130	Descriptive Geometry
CAD	200	Intermediate Computer Aided Design4
CAD	201	Parametric Modeling
0.12		Subtotal 23-26
		/Digital Literacy must be demonstrated either by competency exam or mputer/digital literacy course.
Techi	nical Ele	ectives:
		Choose 19 credits from the technical electives list
		Subtotal 19
		Total Credits 48-51
Techi	nical Ele	ectives: (This list is not all inclusive, other courses
		as approved by the program coordinator such as
		prefix ACH, BRX, CAR, SMT, and PLW.)
CAD	108	Introduction to Surveying
CAD	120	Introduction to Architecture
CAD	150	Programming in CAD
CAD	212	Industrial Drafting Processes
CAD	222	Mechanical Design
CAD CAD	220 230	Architectural Design
CAD	240	Construction Techniques 4
CAD	252	Advanced Dimensioning and Measurement 4 Commercial Detailing
CAD	262	Working Drawings
CAD	292	Industrial Applications 4
CAD	293	Special Problems
CAD	298	Practicum
CAD	299	Cooperative Experience
C.ID	-22	<i>Certificates</i>
( 0 M	1	Computer Assisted Drafter - 1513013059
(Offe	red at ASC	, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SMC, WKC)
		Available Completely Online
Genera	al Educatio	
		Written Communication, Oral Communications, or
		Humanities/Heritage
		Quantitative Reasoning (MAT 105 excluded)
		Subtotal 6
Tech	nical Co	re•
icem	iicai CO	Computer/Digital Literacy course OR
		demonstrated competency
CAD	100	Introduction to Computer Aided Design
CAD	102	Drafting Fundamentals
CAD	112	Engineering Graphics
CAD	130	Descriptive Geometry4
CAD	200	Intermediate Computer Aided Design4
CAD	201	Parametric Modeling 4

24-30

30-36

Subtotal

**Total Credits** 

CAD

CAD

CAD

292 293

298

299

#### (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, OWC, SEC, SMC, WKC) Available Completely Online General Education: Written Communication, Oral Communications, or **Technical Core:** Computer/Digital Literacy course OR 100 CAD 102 Drafting Fundamentals ...... 4 CAD CAD 112 Engineering Graphics ......4 CAD 130 Descriptive Geometry ...... 4 200 Intermediate Computer Aided Design ...... 4 CAD Subtotal **Total Credits** 25-28 Drafter Assistant – 1513013079 (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SMC, Available Completely Online General Education: Written Communication, Oral Communications, or Subtotal Computer/Digital Literacy course OR demonstrated competency ...... 0-3 CAD 100 CAD 102 CAD 112 Engineering Graphics ......(4) Subtotal **Total Credits** 13-16 Civil Drafter - 1513013049 (Offered at ASC, BLC, BSC, HZC, OWC, SEC, WKC) General Education: Subtotal **Technical Core:** Computer/Digital Literacy course OR demonstrated competency ...... 0-3 CAD 100 CAD 102 Drafting Fundamentals ...... 4 CAD 112 Engineering Graphics .......4 CAD 130 Descriptive Geometry ......4 Subtotal **Surveying Core:** Choose 9-12 hours from the following courses: CAD 108 SMT 110 SMT 130 SMT 160 SMT SMT 220 SMT 230 250 SMT Subtotal

**Total Credits** 

Detailer - 1513013089

### **Computer and Information Technologies**

# With tracks in Applications, Information Security, Internet Technologies, Network Administration, Networking Technologies, Programming and Computer Science

This program includes tracks in Applications, Information Security, Internet Technologies, Network Administration, Network Technologies, and Programming, with a core of courses common to all. The core includes a general education component essential to a collegiate education and a technical component giving students an introduction to information systems, computer applications, program development, system maintenance, networking, security, Internet technologies, database design, and collaborative system development. In addition to core courses, students take specialty courses for their selected track.

-Students graduating with a degree or certificate in Computer & Information Technologies may only use a course with a grade of "C" or higher (or a "Pass" for Pass/Fail courses) to fulfill a core or track graduation requirement.

-The Computer & Information Technologies department does not accept non-Gen Ed courses older than 5 years from returning or transfer students without consent from the local program coordinator.

-Students may not use one course to fulfill multiple requirements.

The **Applications track** emphasizes several aspects of application software. It includes such productivity applications as: word processing, spreadsheets, database management, presentation, geographic information systems, website development/maintenance, and help desk tracking systems. Completion of this track will prepare students to work with computer-based systems in business and industry.

Business Software Specialist - Designed to train students to operate a wide variety of software packages and to assist businesses in developing and maintain databases, producing financial statements, and developing applications using various software packages Computer Support - Provides an in-depth knowledge of application software, computer system configurations, Help Desk Tools/Software, end-user documentation, user training, and other user support skills.

Geographic Information Systems - Provides students with practical GIS skills and a solid foundation for geographical manipulation through developing and implementing GIS Applications.

Software Support - Provides an in-depth knowledge of application

Software Support - Provides an in-depth knowledge of application software, computer system configurations, and data driven websites.

The **Information Security track** will provide a solid background in information security. Fundamentals of information security, offensive and defensive techniques, and security topics such as operating system security, network security design, or other security topics are covered. This track will help prepare students for entry-level positions of network security, auditing and penetration testing, firewall configuration, and computer crime investigation.

The **Internet Technologies track** prepares students to design, program, and maintain Internet-based services. With specializations in web programming and web server administration, this track will help prepare students for positions developing and maintaining interactive web sites.

The **Network Administration track** provides the concepts and skills needed to design, set-up, maintain and expand network and telecommunications systems. The curriculum provides specific training in Cisco,

27-33

and/or Microsoft network systems. Upon completion of the track, the graduate will be qualified to take industry designed and recognized certification examinations. Employment opportunities include entry-level positions in installation and administration of local and wide area networks in medium to large businesses and organizations, and computer network administration positions in small businesses.

The **Network Technologies track** provides the concepts and skills needed to set up, maintain, and expand networked computer systems. This track requires sequences in Microsoft Windows, Cisco, and UNIX/Linux as well as courses providing deeper insight into Internet protocols and network security. Employment opportunities include entry-level positions in installation and administration of local area networks in medium to large organizations and as computer network administrators in small business.

The **Programming track** prepares students to design, develop, and maintain computer programs written in current and emerging programming languages. With tracks in Information Systems and Software Development, students successfully completing this track are prepared for entry-level positions in computer programming.

Information Systems - This track is designed with an emphasis on programming for a business environment. Students completing the Information Systems track study basic business concepts, one programming language at an advanced level, and two programming languages at an introductory level.

Software Development - This track emphasizes computer software development. Students completing the Software Development track study a minimum of two computer programming languages at an advanced level and additional programming language(s) at an introductory level. Flexibility within this track allows students to focus on a specific area of software development by means of the programming languages they choose to study (object-oriented programming, database programming, game development, etc.).

The **Computer Science track** prepares students interested in an advanced study of computer programming. The curriculum couples the study of programming with computer science concepts such as computational complexity, advanced data structures, and proof techniques. The curriculum may also be used to prepare students for entry into bachelor-level programs in computer science

- Students graduating with a degree or certificate in Computer & Information Technologies may only use a course with a grade of "C" or higher (or a "Pass" for Pass/Fail courses) to fulfill a core or track graduation requirement.
- The Computer & Information Technologies department does not accept non-Gen Ed courses older than 5 years from returning or transfer students without consent from the local program coordinator.
- Students may not use one course to fulfill multiple requirements.

#### **Computer Technician Certificate**

The Computer Technician Certificate offers students the opportunity to earn a credential demonstrating computer technician competencies. This certificate consists of the core skills that students need to achieve the industry A+ and Security+ certifications. In addition, this certificate will provide a way for professionals currently in the industry to update their technician skills and for new students to show progress in the CIT program.

#### **CIT Fundamentals Certificate**

The CIT Fundamentals Certificate offers students the opportunity to earn a credential demonstrating basic competency in the area of computers. The certificate consists of a natural progression of classes that are required for the Associate in Applied Science degree in Computer &

Information Technologies. It gives those who are unable, or do not need, to complete a degree a way of demonstrating their level of computer proficiency.

#### **Productivity Software Specialist Certificate**

The Productivity Software Specialist Certificate offers students the opportunity to earn a credential demonstrating productivity software competencies. This certificate consists of the core skills that students need to effectively use various productivity software products. In addition, this certificate will provide a way for professionals currently in the industry to update their productivity software skills and for new students to show progress in the CIT program.

#### **Computer Tech Basic Certificate**

The Computer Tech Basic Certificate offers students the opportunity to earn a credential demonstrating basic competency in the area of computer information technology. The certificate consists of a natural progression of classes that are required for the Associate in Applied Science degree in Computer & Information Technologies. It gives those who are unable, or do not need, to complete a degree a way of demonstrating their level of computer proficiency. The Computer Tech Basic Certificate prepares students for the CompTIA A+ and Net+ certification exams which are recognized by the computer industry around the world.

#### **Computer Support Technician Certificate**

The Computer Support Technician Certificate offers students the opportunity to earn a credential demonstrating computer support technician competencies. The certificate consists of the core skills that students need for computer and end-user support. In addition, this certificate will provide a way for professionals currently in the industry to update their computer support technician skills and for new students to show progress in the CIT program.

#### Information Security Specialist Certificate

The Information Security Specialist Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of information security. This certificate consists of the core skills that students need to effectively build and maintain information security systems. In addition, this certificate will provide a way for professionals currently in the industry to update their information security skills and for new students to show progress in the CIT program.

#### Microsoft Network Administrator Certificate

The Microsoft Network Administrator Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program.

#### **CISCO Networking Associate Certificate**

The CISCO Networking Associate Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program. The CISCO Networking Associate Certificate prepares students for the CCNA exam which is recognized by the computer industry around the world.

#### **Network Technologies Specialist Certificate**

The Network Technologies Specialist Certificate offers students the opportunity to earn a credential demonstrating network technology competencies. This certificate consists of specialized networking classes that students need to effectively configure and maintain networks using network technologies specialist skills. In addition, this certificate will provide a way for professionals currently in the industry to update their network technologies specialist skills.

#### Net+ Certificate

The Net+ Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program. The Net+ Certificate prepares students for the CompTia Net+ exam which is recognized by the computer industry around the world.

#### Security + Certificate

The Security+ Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of information security. This certificate consists of the core skills that students need to effectively build and maintain information security systems. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program. The Security+ Certificate prepares students for the CompTia Security+ exam which is recognized by the computer industry around the world.

#### **CISCO Networking Enhanced Certificate**

The CISCO Networking Enhanced Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of computer networking. This certificate consists of the core skills that students need to effectively build and maintain computer networks. In addition, this certificate will provide a way for professionals currently in the industry to update their computer networking skills and for new students to show progress in the CIT program. The CISCO Networking Associate Certificate prepares students for the CCNA and Net+ exams which are recognized by the computer industry around the world.

#### A+ Certificate

The A+ Certificate offers students the opportunity to earn a credential demonstrating basic competency in the area of computer hardware and software. The certificate consists of one course that prepares students for the CompTIA A+ certification exams which are recognized by the computer industry around the world. It gives those who are unable, or do not need, to complete a degree a way of demonstrating their level of proficiency.

#### **Microsoft Enterprise Administrator Certificate**

The Microsoft Enterprise Administrator certificate offers students the opportunity to earn a credential demonstrating skills in the administration and design of Microsoft enterprise networks. This certificate consists of the core skills that students need to effectively plan, build, and maintain a Microsoft network. In addition, this certificate will provide a way for professionals currently in the industry to update their Microsoft network administrator skills.

#### **Programming Certificate**

The Software Developer Certificate offers students the opportunity to earn a credential demonstrating programming competencies. This certificate consists of the core skills that students need to effectively develop programs using multiple computer languages. In addition, this certificate will provide a way for professionals currently in the industry to update their programming skills and for new students to show progress in the CIT program.

#### **Web Programming Certificate**

The Web Programming Certificate offers students the opportunity to earn a credential demonstrating web programming competencies. This certificate consists of the core skills that students need to effectively develop websites using web programming. In addition, this certificate will provide a way for professionals currently in the industry to update their web programming skills and for new students to show progress in the CIT program.

#### **Web Administration Certificate**

The Web Administration Certificate offers students the opportunity to earn a credential demonstrating web administration competencies. This certificate consists of the core skills that students need to effectively maintaining web sites through network and web server administration. In addition, this certificate will provide a way for professionals currently in the industry to update their web administration skills and for new students to show progress in the CIT program.

#### Social Media Specialist Certificate

The Social Media Specialist Certificate prepares students for careers as social media analyst to leverage social media tools to increase business awareness and presence.

### Associate in Applied Science

#### Computer and Information Technologies - 1101017089

(Offered at ASC, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)

#### **General Education**

ENG	101	Writing I
MAT	126	Technical Algebra and Trigonometry (or higher)
		Social/Behavioral Sciences Course
		Heritage/Humanities Course
		Natural Sciences Course
		Subtotal 15

#### General Education for Computer Science Track

		r	
ENG	101	Writing I	3
MAT	174	Calculus	4
		Social/Behavioral Sciences Course	3
		Heritage/Humanities Course	3
PHY	231	General University Physics	4
PHY	241	General University Physics Laboratory	1
		Subtotal 1	8

#### **Core Requirements**

CIT	105	Introduction to Computers
CIT	111	Computer Hardware and Software 4
CIT	120	Computational Thinking
CIT	150	Internet Technologies OR
CIT	155	Web Page Development OR(3)
CIT	157	Web Site Design and Production(3)

CIT	170	Database Design Fundamentals			Information Security Track - 110101712	
CIT	180	Security Fundamentals	(Offe	red at AS	C, BSC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,	
		Approved Level I Programming Language Course	-		WKC)	
CIT	291	CIT Capstone	CIT	182	Perimeter Defense	
011		Subtotal 29	CIT	184	Attacks and Exploits	
			CIT	217	UNIX/Linux Administration	
		Applications Treat 110101711			Approved Network Elective Course	
		Applications Track – 110101711			Approved Security Elective Course	
(Offer	red at ASO	C, BLC, BSC, HZC, HEC, HPC, JFC, MDC, MYC, OWC, SEC,WKC)			Approved Technical Course(s)6	
CIT	130	Productivity Software			Track Subtotal 24	
		Approved Business or Management Course			Total 68	
		Approved CIT Technical Course				
		Completion of Applications Track Course Sequences in			Internet Technologies Treels 110101710	
		Business	_	_	Internet Technologies Track - 110101710	
		Software Specialist or Computer Support or Geographic	(Off	ered at AS	SC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	
		Information Systems or Software Support (see below) 12  Track Subtotal 21			SKY, SMC)	
		Track Subtotal 21	CIT	150	Internet Technologies OR	
		Total 65	CIT	155	Web page Development (whichever was not taken in core) (3)	
			CIT	157	Web Site Design and Production	
Busin	ness Sof	ftware Specialist	CIT	253	Data Drive Web Pages: Topic	
CIT	234	Advanced Productivity Software	CIT	257	Applied Internet Technologies OR	
CIT	236	Advanced Data Organization	CIT	258	Internet Technologies Seminar	
CIT	171	SQL1			Completion of Internet Technologies Specialization	
		Approved Business or Management Course			Sequence         12           Track Subtotal         24	
		Subtotal 12			Hack Subtotal 24	
Com	nuter S	upport			Total 68	
CIT	232	Help Desk Operations	337 1	D		
CIT	234	Advanced Productivity Software	web	Progra	mming Specialization Sequence:	
CIT	236	Advanced Data Organization			Approved Level I Web Programming Language	
		CIT Technical Course	CIT	171	Approved Level II Web Programming Language	
		Subtotal 12	CH	1 / 1	SQL I	
					Subtotal 12	
Geog	graphic	Information Systems			Subtotal	
CIT	125	Introduction to GIS	Web	Admin	istration Specialization Sequence:	
CIT	225	GIS Software Tools	CIT	219	Internet Protocols	
CIT	229	Selected Topics in GIS	CIT	255	Web Server Administration	
CIT	253	Data-Driven Web Pages: Topic	CIT	261	MS Active Directory Services AND	
		Subtotal 12	CIT	213	MS Client/Server Config	
OR					OR	
GIS	110	Spatial Data Analysis and Map Interpretation	CIT	262	MS Network Infrastructure AND(3)	
GIS	120	Introduction to Geographic Information Systems	CIT	213	MS Client/Server Config(3)	
GIS	210	Advanced Geographic Information Systems			OR	
CIT	253	Data-Driven Web Pages: Topic	CIT	217	UNIX/Linux Net Infrastructure AND(3)	
		Subtotal 12	CIT	218	UNIX/Linux Net Infrastructure	
	_				Subtotal 12	
	vare Su					
CIT	234	Advanced Productivity Software			Network Administration Track - 110101708	
CIT	236	Advanced Data Organization	(Offe	ered at AS	C, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,	
CIT	253	Data-Driven Web Pages: Topic			SEC, SKY, SMC,WKC)	
ENG	102	Writing II OR			Network Administration Specialization Sequence	
		Subtotal 12			Approved CIT Technical Courses8-12	
		Subtotal			Track Subtotal 20-24	
		0t C-i Tt- 110101714			Total (4.69	
		Computer Science Track - 110101714			Total 64-68	
		(Offered at BLC, BSC, HPC, HZC, MYC)	Mici	rosoft W	Vindows Administration Specialization Sequence	
ENG	102	Writing II	CIT	213	MS Client/Server Config	
MAT	184	Calculus II	CIT	214	Server Infrastructure Admin	
		Approved Computer Science Sequence (One course in the	CIT	261	MS Active Directory Services	
		sequence is taken as part of the core)9-11	CIT	264	MS Server Admin	
		Track Subtotal 15-17			Subtotal 12	
		Total 62-64	<b>~</b> :	Class Net colling Associate E. J. C. C. 132 C.		
			_		orking Associate – Exploration Specialization	
				ience	P 4 P 1 10	
			CIT	210	Routing Protocols and Concepts	
			CIT	211	LAN Switching and Wireless	
			CIT	212	Accessing the WAN	
					Subtotal 12	

		orking Associate – Discovery Specialization			evel I Networking Course*		
Sequ			CIT	160	Intro to Networking Concepts4		
CIT	163	Small – Medium Office or ISP 4	CIT	161	Networking Fundamentals		
CIT	164	Introduction to Routing and Switching 4	CIT	162	Home and Small Office Fundamentals 4		
CIT	165	Network Design and Support4	App	roved No	etwork Elective Course*		
		Subtotal 12	CIT	163	Small-Medium Business or ISP		
			CIT	164	Introduction to Routing and Switching4		
		Natural Tachnologica Track 110101719	CIT	165	Network Design and Support4		
		Network Technologies Track - 110101713	CIT	210	Routing Protocols and Concepts		
		(Offered at ASC, BLC, HEC, MDC, MYC, OWC)	CIT	211	LAN Switching and Wireless		
CIT	219	Internet Protocols					
CIT	288	Network Security	CIT	212	Accessing the WAN		
		Approved Level I and Level II Network Technology	CIT	213	MS Client/Server Config		
		Microsoft Windows Course Sequence OR	CIT	214	Server Infrastructure Admin		
		Approved Level I and Level II Network Technology	CIT	217	UNIX/Linux Administration		
		Cisco Course Sequence OR(12)	CIT	218	UNIX/Linux Net Infrastructure 3		
			CIT	219	Internet Protocols		
		Approved Level I and Level II Network  Tasks also set UNIX (Linux Courses Services as (12))	CIT	260	Network Hardware Installation and Troubleshooting 3		
		Technology UNIX/Linux Course Sequence	CIT	261	MS Active Directory Services		
		Approved Level I, Level II, or Level III Network Technologies	CIT	262	MS Network Infrastructure		
		Specialization Sequence	CIT	264	MS Server Administration		
		Track Subtotal 22-24	CIT	265	MS Applications Servers		
		Total 66-68	CIT	266	MS Enterprise Administration		
		10ta1	A	1 C .			
					curity Elective Course*		
		Programming Track - 110101709	CIT	284	Computer Forensics		
(Offar	ad at DI	C, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	CIT	285	Windows OS Security		
Offer	ea at DL		CIT	286	UNIX/Linux OS Security		
Over.	120	SMC,WKC)	CIT	287	Cisco OS Security		
CIT	130	Productivity Software	CIT	288	Network Security3		
		Approved CIT Technical Course(s)	Ann	roved Le	evel I Network Technologies Course Sequences*		
		Completion of Programming Track Specialization Sequence					
		Development	Mici	rosoft Wi	indows Course Sequence I		
		Track Subtotal 24			Any 6 credit hours of course work from the Microsoft		
		Total (0			Windows Network Specialization Course list		
		Total 68	IINI	X/Linux	Course Sequence		
Duog		na Information Systems Specialization Sequence	CIT	217	UNIX/Linux Administration AND		
_		ng Information Systems Specialization Sequence	CIT	218	UNIX/Linux Net Infrastructure		
CIT	171	SQL I					
		Approved Level II Programming Language	Cisc	o Course	e Sequence I		
		Approved Level I, II or III Programming Language 3	CIT	210	Routing Protocols and Concepts4		
		Approved Programming Management Course	Secu	rity Con	urse Sequence I		
		Approved Programming Business Course	Беси	irity cou	Any 6 credit hours of course work from the Security		
		Subtotal 15			Specialized Sequence Course list which is not taken as part of		
Prog	rammiı	ng Software Development Specialization Sequence			another sequence.		
		Approved Level I Programming Language 3	App	roved Le	evel II Network Technology Specialization		
		Approved Level II Programming Language 3	Sequences*				
		Approved Level II Programming Language	-		indows Course Sequence II		
		Approved Level I, II or III Programming Language 3	MICI	i OSOIL W			
CIT	253	Data-Driven Web Pages: Topic			Any 6 credit hours of course work from the Microsoft		
		Subtotal 15			Windows Network Specialization Course list (after		
					completing the requirements for the Microsoft Windows		
Cour	se Cho	ice Lists			Specialization Sequence I)		
A	orad D	rusinass Courses*	UNI	X/Linux	Course Sequence II		
		Susiness Courses*	_	ose two:	-		
ACT	101	Fundamentals of Accounting					
ACC	201	Financial Accounting I	CIT	286	UNIX/Linux OS Security		
BAS	160	Introduction to Business	CIT	255	Web Server Administration		
		Any business course approved by Program Coordinator 3	CIT	145	Perl I		
Appr	oved M	Management Courses*	Cisc	o Course	e Sequence II		
BAS	200	Small Business Management	CIT	211	LAN Switching and Wireless AND4		
BAS	274	Human Resource Management	CIT	212	Accessing the WAN		
BAS	283	Principles of Management					
BAS	287	Supervisory Management			evel III Network Technology Specialization		
	288		Sequences*				
BAS MEC		Personal and Organizational Leadership	Internet Servers Administration Course Sequence				
MFG	256	Production Management	CIT	255	Web Server Administration AND		
OST	275	Office Management	CIT	265	MS Applications Servers		
QMS	101	Introduction to Quality Systems			• •		
QMS	201	Customer Service Improvement Skills	Mici	rosoft Wi	indows Course Sequence III		
		Any management course approved by Program Coordinator. 3			Any 6 credit hours of course work from the Microsoft		
					Windows Network Course list (after completing the		
					requirements for the Microsoft Windows Sequence II) 6		

CIT 213 MS Client/Server Config	1013309
CIT 262 MS Network Infrastructure. 3 CIT 105 Introduction to Computing CIT 264 MS Server Administration. 3 CIT 111 Computer Hardware and Softwork Infrastructure and Softwork Infrastructure. 3 CIT 120 Compute Hardware and Softwork Infrastructure and S	C, HZC, JFC, MDC, MYC, OWC,
CIT 264 MS Server Administration. 3 CIT 105 Introduction to Computing CIT 265 MS Applications Servers. 3 CIT 111 Computer Hardware and Softy	
CIT 265 MS Applications Servers 3 CIT 111 Computer Hardware and Software CIT 120 Computational Thinking	
CIT 120 Computational Thinking	
	3
CIT 150 Internet Technologies	3
	s 3
CIT 182 Perimeter Defense and Countermeasures	3
CIT 184 Attacks and Exploits	OR4
	(4)
	orks(4)
CIT 286 UNIX/Linus OS Security	g Language 3
Approved Level I Programming Language Courses*  Total	26
CIT 140 JavaScript I	
OWE 444 PURI	+ 1101012200
CIT 141 PHP1	
CIT 145 Perl I	C, JFC, MDC, MYC, OWC, SEC,
CIT 147 Programming I: Language	
CIT 148 Visual Basic I. 3 CIT 105 Introduction to Computing	3
	3
*** *** * <b>\</b> _= * **********************************	re3
Approved Level II Programming Language Courses*  CIT 236 Adv. Data Organization Software Total	re 3
CIT 241 PHP II	12
CIT 242 C++ II	
CIT 246 2D Game Development: Language	N1N13319
CIT 249 V:1 D II	
CIT 249 Inva II 3	
CIT 271 COLU	3
CII III Computer Hardware and Sorty	vare 4
	4
CIT 276 3D Game Development: Language	11
CIT 277 Programming III: Language	
CIT 270 Visual Pasis III	
CIT 278 Visual Basic III	- 1101013329
CIT 278 Visual Basic III	
CIT 278 Visual Basic III	
CIT 278 Visual Basic III	C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I . 3 CIT 148 Visual Basic I. 3 CIT 149 Java I . 3 CIT 150 Productivity Software	CC, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	CC, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses*  CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3 CIT 241 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic II. 3 CIT 248 Visual Basic II. 3 CIT 248 Visual Basic II. 3 CIT 249 Java II 3 CIT 236 Advanced Productivity Software 3 CIT 246 Advanced Data Organization S CIT 249 Java II 3 CIT 236 Advanced Data Organization S Total	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 WKC) CIT 148 Visual Basic I. 3 CIT 130 Productivity Software. CIT 149 Java I 3 CIT 111 Computer Hardware and Software. CIT 241 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic II. 3 CIT 232 Help Desk Operations CIT 248 Visual Basic II. 3 CIT 234 Advanced Productivity Software. CIT 249 Java II 3 CIT 236 Advanced Data Organization S CIT 249 Java II 3 Total  Approved Computer Science Sequences:	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3  Approved Level II Web Programming Language Courses* CIT 241 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic II. 3 CIT 248 Visual Basic II. 3 CIT 249 Java II 3 CIT 249 Java II 3 Approved Computer Science Sequences: Offerings vary per college.  CIT 278 Visual Basic III. 3 COmputer Support Technician (Offered at ASC, BLC, BSC, GTW, HEC, HPC, HZ WKC) CIT 130 Productivity Software CIT 111 Computer Hardware and Software CIT 232 Help Desk Operations CIT 234 Advanced Productivity Software CIT 248 Visual Basic II. 3 CIT 236 Advanced Data Organization Society Specialis	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	2C, JFC, MDC, MYC, OWC, SEC, 3 vare 4
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses*  CIT 141 PHP I	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses*  CIT 141 PHP I	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3 Approved Level II Web Programming Language Courses* CIT 241 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic I 3 CIT 248 Visual Basic I 3 CIT 249 CIT 249 Java II 3 Approved Computer Science Sequences: CIT 249 Social Media Courses* CIT 151 Social Media I 3 CIT 151 Social Media I 3 CIT 251 Social Media I 3 Approved CIT Technical Courses* Additional CIT Course(s) EXCEPT CIT 103 1-3 *Or other courses approved by Computer & Information Technologies Program Coordinator  Note: Students may not use one course to fulfill multiple requirements.  *Miernsoft Network Administrate  **Cordinator*  **Miernsoft Network Administrate*  **Cordinator*  **Miernsoft Network Administrate*  **Miernsoft Network Administrate*	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 149 Java I 3 CIT 149 Java I 3 CIT 241 PHP II 3 CIT 249 Java II 3 CIT 248 Visual Basic II 3 CIT 248 Visual Basic II 3 CIT 249 CIT 249 Java II 3 CIT 249 CIT 251 Social Media I 3 CIT 151 Social Media I 3 CIT 151 Social Media I 3 CIT 151 Social Media I 3 CIT 251 Social Media II 3 CIT 252 Social Media II 3 CIT 254 Security Specialis CIT 254 Security Specialis CIT 254	CC, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 oftware 3 16  1-1101013339 CC, JFC, MDC, MYC, OWC, SEC, 4 3 admin Elective Courses 6 19
Approved Level I Web Programming Language Courses* CIT 141 PHP I	C, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 oftware 3 16  1-1101013339 C, JFC, MDC, MYC, OWC, SEC, 4 3 dmin Elective Courses 6 19  or - 1101013349 C, HZC, JFC, MDC, MYC, OWC,
Approved Level I Web Programming Language Courses* CIT 141 PHP 1 3	C, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 16  1-1101013339 C, JFC, MDC, MYC, OWC, SEC, 4 3 dmin Elective Courses 6 19  or - 1101013349 C, HZC, JFC, MDC, MYC, OWC, CC
Approved Level I Web Programming Language Courses* CIT 141 PHP I	C, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 oftware 3 16  t - 1101013339 C, JFC, MDC, MYC, OWC, SEC, 4 3 ddmin Elective Courses 6 19 or - 1101013349 C, HZC, JFC, MDC, MYC, OWC, CC 4
Approved Level I Web Programming Language Courses* CIT 141 PHP I	C, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 16  1-1101013339 C, JFC, MDC, MYC, OWC, SEC, 4 3 dmin Elective Courses 6 19  or - 1101013349 C, HZC, JFC, MDC, MYC, OWC, CC) 4 3 3
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I. 3 CIT 149 Java I 3  Approved Level II Web Programming Language Courses* CIT 241 PHP II. 3 CIT 241 PHP II. 3 CIT 248 Visual Basic III. 3 CIT 249 Java II 3 CIT 249 Java II 3  Approved Computer Science Sequences: Offerings vary per college.  Approved Computer Science Sequences: Offerings vary per college.  Approved Social Media I 3 CIT 151 Social Media I 3 CIT 251 Social Media II. 3 CIT 251	C, JFC, MDC, MYC, OWC, SEC,  3 vare 4 3 oftware 3 16  1-1101013339 C, JFC, MDC, MYC, OWC, SEC, 4 3 dmin Elective Courses 6 19  17 - 1101013349 C, HZC, JFC, MDC, MYC, OWC, CC) 4 3 R. 3
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3  Approved Level II Web Programming Language Courses* CIT 241 PHP II. 3 CIT 241 PHP II. 3 CIT 248 Visual Basic III. 3 CIT 249 Java II. 3 CIT 249 Java II. 3  Approved Computer Science Sequences: Offerings vary per college.  Approved Computer Science Sequences: Offerings vary per college.  Approved Social Media I 3 CIT 151 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Courses* CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Courses CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Courses CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Courses CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Courses CIT 251 Social Media II. 3 CIT 251 Social Media II. 3 Approved CITTechnical Course City Except CIT 103 1-3  *Or other courses approved by Computer & Information Technologies Program Coordinator  Note: Students may not use one course to fulfill multiple requirements.  *Certificates  Computer Technician - 1101013289  Computer Subcentry Specialis  Computer Subcentry Software. Course CIT 213  Computer Subcentry Software. CIT 241  Computer Subcentry Software. CIT 252  Computer Subcentry Software. CI	7C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic II. 3 CIT 149 Java I 3 CIT 149 Java I 3 CIT 241 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic III. 3 CIT 248 Visual Basic III. 3 CIT 249 Java II 3 CIT 249 Java II 3 CIT 249 Java II 3 Approved Computer Science Sequences: Offerings vary per college.  Approved Social Media Courses* CIT 251 Social Media I 3 CIT 251 Social Media II. 3 Approved CIT Technical Courses Additional CIT Course(s) EXCEPT CIT 103 1-3 **Or other courses approved by Computer & Information Technologies Program Coordinator  Note: Students may choose CIT 290 or COE 199 for a maximum of 3 credit hours.  **Certificates*  Computer Technician Course	C, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I	CC, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3 CIT 149 Java I 3 CIT 240 PHP II 3 CIT 241 PHP II 3 CIT 248 Visual Basic II 3 CIT 248 Visual Basic II 3 CIT 249 Java II 3 CIT 249 Java II 3 CIT 249 Java II 3 CIT 250 Advanced Data Organization S CIT 251 Social Media I 3 CIT 251 Social Media I 3 CIT 251 Social Media I 3 CIT 251 Social Media II 3 CIT 252 MEDIA REVERSE CORPORE CIT 250 or COE 199 for a maximum of 3 credit hours.  CIT 213 MEDIA REVERSE CORPORE CIT 250 or COE 199 for a maximum of 3 credit hours.  CIT 261 MS Active Directory Services CIT 251 Social Media II 3 CIT 264 MS Server Admin Security Network of Total  CIT 264 MS Server Admin Security Network of Total  CIT 264 MS Server Admin Security Network of Total	C, JFC, MDC, MYC, OWC, SEC,
Approved Level I Web Programming Language Courses* CIT 141 PHP I 3	CC, JFC, MDC, MYC, OWC, SEC,
CIT 278 Visual Basic III. 3  Approved Level I Web Programming Language Courses* CIT 141 PHP I 3 CIT 148 Visual Basic I 3 CIT 149 Java I 3 CIT 149 Java I 3 CIT 241 PHP II 3 CIT 248 Visual Basic III 3 CIT 248 Visual Basic III 3 CIT 248 Visual Basic III 3 CIT 249 Java II 3 CIT 249 Java II 3 CIT 240 Advanced Data Organization S CIT 249 Java II 3 CIT 250 Advanced Data Organization S CIT 251 Social Media I 3 CIT 152 Social Media II 3 CIT 152 Social Media II 3 CIT 153 Social Media II 3 CIT 154 Social Media II 3 CIT 155 Social Media II 3 CIT 156 Social Media II 3 CIT 180 Security Specialis *Orther courses approved by Computer & Information Technologies Program Coordinator  Note: Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may not use one course to fulfill multiple requirements. Students may choose CIT 290 or COE 199 for a maximum of 3 credit hours.  Coffered at ASC, BLC, BSC, ELC, GTW, HE	C, JFC, MDC, MYC, OWC, SEC,

Total

		CISCO Networking Associate - 1101013359			Programming - 1101013429
(Off	fered at A.	SC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, SEC, SKY, SMC,WKC)	(Offe	red at AS	C, BSC, ELC, GTW, HZC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)
CIT	161	Network Fundamentals OR	CIT	120	Computational Thinking
			CH	120	1 8
CIT	162	Home and Small Office Networks(4)			Approved Level I Programming Language
		Network Associate Track Course Sequence			Approved Level II Programming Language
		Total 16			Approved Level I, II, or III Programming Language
					Total 12
		Network Technologies Specialist - 1101013369			
					Web Drogramming 1101012420
		at ASC, BLC, BSC, HEC, HPC, HZC, MDC, MYC, OWC, SEC)			Web Programming - 1101013439
CIT	219	Internet Protocols	(Offe	red at AS	C, BSC, ELC, GTW, HZC, HEC, HPC, HZC, JFC, MDC, MYC, OWC,
CIT	288	Network Security			SEC, SMC)
		Approved Level I and Level II Network Technology Microsoft	CIT	120	Computational Thinking
		Windows Course Sequence OR	CIT	150	Internet Technologies
		Approved Level I and Level II Network Technology Cisco	CIT	155	Web Page Development
		Course Sequence OR(12)	CIT	157	Web Site Design and Production
		Approved Level I and Level II Network Technology UNIX/	CIT	171	SQL I
		Linux	CIT	253	Data-Driven Web Pages: Topic
		Course Sequence(12)			Approved Level I Web Programming Language
		Approved Level I, Level II, or Level III Network Technologies			Approved Level II Web Programming Language
		Course Sequence			Total 24
		Total 22-24			10111
		A14444444			Web Administration - 1101013449
		CISCO Networking Enhanced - 1101013379	(Offe	ered at AS	CC, BSC, ELC, HZC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,
(Off	fered at A	SC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, SEC, SKY,	(S)	104 41 115	SMC)
(3)	0104 4011	SMC,WKC)	CIT	120	,
CIT	161	Network Fundamentals OR	CIT	120	Computational Thinking
			CIT	150	Internet Technologies
CIT	162	Home and Small Office Networks	CIT	155	Web Page Development
		Network Associate Track Course Sequence	CIT	157	Web Site Design and Production
		Approved CIT Technical Courses	CIT	253	Data-Driven Web Pages: Topic
		Total 24-25	CIT	219	Internet Protocols
			CIT	255	Web Server Administration
		A+ - 1101013389	CIT	261	MS Active Directory Services AND
( o m			CIT	213	MS Client/Server Config
(Offi	ered at AS	C, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,		OR	
		SKY, SMC,WKC)	CIT	262	MS Network Infrastructure AND(3)
CIT	111	Computer Hardware and Software 4	CIT	213	MS Client/Server Config(3)
		Total 4		OR	
			CIT	217	UNIX/Linux Administration AND(3)
		Not. 1101012200	CIT	218	UNIX/Linux Net Infrastructure(3)
		Net+ - 1101013399			Total 27
(Offe	ered at AS	C, BLC, BSC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,			
~		WKC)			0 ' 1 11 1' 0 ' 1' 1 440404040
CIT	160	Intro to Networking Concepts			Social Media Specialist – 1101013469
		Total 3	CIT	105	Introduction to Computers OR demonstrated competency 0-3
			CIT	155	Web Page Development
			CIT	151	Social Media I
		Security+ - 1101013409	CIT	152	Social Media Tools and Technologies
(Off	ered at AS	CC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	CIT	251	Social Media II
(SI)		SKY, SMC, WKC)	BAS	160	Introduction to Business
CIT	190	Security Fundamentals	BAS	282	Introduction to Marketing
CIT	180		DAS	202	Total 18-21
		Total 3			10-21
	N	licrosoft Enterprise Administrator - 1101013419		ſ	Computarized Manufacturing
$(\Omega \Omega)$		•		L	Computerized Manufacturing
Offi	ereu at AS	CC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,			
		WKC) Level I Network Course			and Machining

Level I Network Course ......4

MS Network Infrastructure ......(3)

CIT

CIT

CIT

CIT

CIT

CIT

213

214

262

261

265

266

Total

# anu maciiiiiig

Work activities in machine shop involve applying knowledge of machine capabilities, the properties of materials, and shop practices to set-up and operate various machines. The skills needed to position work pieces, adjust machines, and verify the accuracy of machine functions and finish products are taught by classroom instruction, demonstration, and hands on experience.

Students enrolled in the Computerized Manufacturing & Machining program must achieve a minimum grade of "C" in each technical course

Associate in Applied Science				Technical:				
		11	CMM	110	Computer/Digital Literacy* Fundamentals of Machine Tools A AND			
	Compi	uterized Manufacturing & Machining - 4805037019	CMM		Fundamentals of Machine Tools B OR			
		fered at BLC, BSC, ELC, MDC, MYC, OWC, SKY,WKC)	CMM	114	Fundamentals of Machine Tools			
Cono	ral Edu				Metrology/Control Charts			
ENG	101	Writing I 3	CMM	120	Applied Machining I AND			
MAT	116	Technical Mathematics OR	CMM	122	Applied Machining II OR			
MAT	126	Technical Algebra and Trigonometry or Higher(3)	CMM	124	Applied Machining			
		Heritage/Humanities	CMM	130	Manual Programming AND	3		
		Natural Sciences	CMM		CAD/CAM/CNC OR			
		Social/Behavioral Sciences	CMM		Manual Programming/CAD/CAM/CNC OR			
		Subtotal: 15	CMM		Intro to Programming & CNC Machines			
		Electives (Co-op or Practicum)	CMM		Industrial Machining I AND			
		Subtotal: 1	CMM CMM		Industrial Machining II OR			
		Subtotali	CMM		Industrial Machining			
Techr	nical:		CMM		Advanced Industrial Machining II OR			
		Computer/Digital Literacy* 0-3	CMM		Advanced Industrial Machining			
CMM	110	Fundamentals of Machine Tools A AND	CMM	2301	Intro to Conversational Programming AND			
CMM	112	Fundamentals of Machine Tools B OR4	CMM	2302	Conversational Editing and Subroutines OR	3		
CMM		Fundamentals of Machine Tools(7)	CMM	230	Conversational Programming OR			
CMM		Metrology/Control Charts	CMM		CNC Machines and Coding Practices	(6)		
CMM		Applied Machining I AND	CMM	2401	Intro to 3-D Code Sequencing and			
CMM		Applied Machining II OR	0.07	2402	Tool path Production AND			
CMM		Applied Machining	CMM		Advanced 3-D Code Sequencing and Macro Systems OI			
CMM CMM		Manual Programming AND         3           CAD/CAM/CNC OR         3	CMM		Intro to 3-D Programming OR			
CMM		Manual Programming/CAD/CAM/CNC OR(6)	CMM BRX	110	Advanced Programming/Setup Practices	(6)		
CMM		Intro to Programming & CNC Machines(6)	BRX	210	Mechanical Blueprint Reading for Machinist OR			
CMM		Industrial Machining I AND	BRX	112	Blueprint Reading for Machinist			
CMM		Industrial Machining II OR	Dia		Subtotal:	49-52		
CMM	214	Industrial Machining(6)			Total Credits:	56-59		
CMM	220	Advanced Industrial Machining I AND4			iotal cicuits.	30-37		
CMM	222	Advanced Industrial Machining II OR			Machinist 4005024070			
CMM		Advanced Industrial Machining(6)	00		Machinist - 4805034079			
CMM		Intro to Conversational Programming AND	(Offer	red at ASC	C, BLC, BSC, ELC, GTW, JFC, MDC, MYC, OWC, SEC, SMC,	WKC)		
	2302							
CMM		Conversational Editing and Subroutines OR	Gene	ral Edu	cation:			
CMM	230	Conversational Programming OR(6)	Gene Area		cation:			
CMM CMM	230 234	Conversational Programming OR(6) CNC Machines and Coding Practices(6)			Written Communication, Oral Communications, or			
CMM	230 234	Conversational Programming OR	Area	1:		3		
CMM CMM	230 234 2401	Conversational Programming OR         (6)           CNC Machines and Coding Practices         (6)           Intro to 3-D Code Sequencing and         3           Tool path Production AND         3	Area Area	1:	Written Communication, Oral Communications, or Heritage/Humanities			
CMM CMM CMM	230 234 2401 2402	Conversational Programming OR	Area Area MAT	1: 2: 116	Written Communication, Oral Communications, or Heritage/Humanities	3		
CMM CMM CMM	230 234 2401 2402 240	Conversational Programming OR	Area Area	1:	Written Communication, Oral Communications, or Heritage/Humanities  Technical Mathematics OR	3		
CMM CMM CMM	230 234 2401 2402 240	Conversational Programming OR	Area Area MAT	1: 2: 116	Written Communication, Oral Communications, or Heritage/Humanities	3		
CMM CMM CMM CMM CMM	230 234 2401 2402 240 244	Conversational Programming OR	Area Area MAT	1: 2: 116	Written Communication, Oral Communications, or Heritage/Humanities  Technical Mathematics OR	3 (3) 6		
CMM CMM CMM CMM CMM CMM BRX	230 234 2401 2402 240 244 110	Conversational Programming OR	Area Area MAT	1: 2: 116	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6		
CMM CMM CMM CMM CMM CMM BRX BRX	230 234 2401 2402 240 244 110 210	Conversational Programming OR	Area MAT MAT	1: 2: 116 126	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6		
CMM CMM CMM CMM CMM CMM BRX BRX	230 234 2401 2402 240 244 110 210	Conversational Programming OR	Area Area MAT	1: 2: 116 126	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1		
CMM CMM CMM CMM CMM CMM BRX BRX	230 234 2401 2402 240 244 110 210	Conversational Programming OR       (6)         CNC Machines and Coding Practices       (6)         Intro to 3-D Code Sequencing and       3         Tool path Production AND       3         Advanced 3-D Code Sequencing and Macro Systems OR       3         Intro to 3-D Programming OR       (6)         Advanced Programming / Setup Practices       (6)         Basic Blueprint Reading for Machinist AND       2         Mechanical Blueprint Reading for Machinist OR       2         Blueprint Reading for Machinist       (4)         Subtotal       49-52	Area  Area  MAT  MAT	1: 2: 116 126	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1 1		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR       (6)         CNC Machines and Coding Practices       (6)         Intro to 3-D Code Sequencing and       3         Tool path Production AND       3         Advanced 3-D Code Sequencing and Macro Systems OR       3         Intro to 3-D Programming OR       (6)         Advanced Programming / Setup Practices       (6)         Basic Blueprint Reading for Machinist AND       2         Mechanical Blueprint Reading for Machinist OR       2         Blueprint Reading for Machinist       (4)         Subtotal       49-52         Total Credits       65-68         al literacy must be demonstrated either by competency exam or by	Area  Area  MAT  MAT  Techi	1: 2: 116 126	Written Communication, Oral Communications, or Heritage/Humanities	3 6 1 1 0-3		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR       (6)         CNC Machines and Coding Practices       (6)         Intro to 3-D Code Sequencing and       3         Tool path Production AND       3         Advanced 3-D Code Sequencing and Macro Systems OR       3         Intro to 3-D Programming OR       (6)         Advanced Programming / Setup Practices       (6)         Basic Blueprint Reading for Machinist AND       2         Mechanical Blueprint Reading for Machinist OR       2         Blueprint Reading for Machinist       (4)         Subtotal       49-52         Total Credits       65-68	Area  Area  MAT  MAT	1: 2: 116 126 nical:	Written Communication, Oral Communications, or Heritage/Humanities	3 6 1 1 0-3 3		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR	Area  Area MAT MAT  Techn CMM CMM	1: 2: 116 126 nical:	Written Communication, Oral Communications, or Heritage/Humanities	3 6 1 1 0-3 3		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR       (6)         CNC Machines and Coding Practices       (6)         Intro to 3-D Code Sequencing and       3         Tool path Production AND       3         Advanced 3-D Code Sequencing and Macro Systems OR       3         Intro to 3-D Programming OR       (6)         Advanced Programming / Setup Practices       (6)         Basic Blueprint Reading for Machinist AND       2         Mechanical Blueprint Reading for Machinist OR       2         Blueprint Reading for Machinist       (4)         Subtotal       49-52         Total Credits       65-68         al literacy must be demonstrated either by competency exam or by	Area  Area MAT MAT  Techn CMM CMM CMM	1: 2: 116 126 nical: 110 112 114	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1 1 0-3 3 4		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR	Area  Area MAT MAT  Techn CMM CMM CMM CMM	1: 2: 116 126 nical: 110 112 114 118	Written Communication, Oral Communications, or Heritage/Humanities	3 6 1 1 3 4 (7) 2		
CMM CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR	Area  Area MAT MAT  Techi CMM CMM CMM CMM CMM	1: 2: 116 126  nical: 110 112 114 118 120	Written Communication, Oral Communications, or Heritage/Humanities	3 6 1 1 3 4 (7) 2		
CMM CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM	1: 2: 116 126 110 112 114 118 120 122 124 130	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-334(7)23(6)3		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112 utter/Digit red at ASO	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 2: 116 126 110 112 114 118 120 122 124 130 134	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1 1 3 4 (7) 3 (6) (6)		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112	Conversational Programming OR	Area  Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 1: 116 126 110 112 114 118 120 122 124 130 134 138	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1 1 0-3 4 (7) 2 (6) (6) (6)		
CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complete  (Offer	230 234 2401 2402 240 244 110 210 112  atter/Digit.ing a complete at ASC  red at ASC	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 1: 116 126 110 112 114 118 120 122 124 130 134 138 210	Written Communication, Oral Communications, or Heritage/Humanities	3 (3) 6 1 1 0-3 4 (7) 3 (6) (6) (6) (6)		
CMM CMM CMM CMM CMM BRX BRX BRX	230 234 2401 2402 240 244 110 210 112  atter/Digit.ing a complete at ASC  red at ASC	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 1: 2: 116 126  nical: 110 112 114 118 120 122 124 130 134 138 210 212	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)23(6)(6)(6)(6)3(6)		
CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complete  (Offer	230 234 2401 2402 240 244 110 210 112  atter/Digit.ing a complete at ASC  red at ASC	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214	Written Communication, Oral Communications, or Heritage/Humanities  Technical Mathematics OR	3 (3) 6 1 1 (0-3 3 (6) (6) (6) (6) (6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  (Offer  General Area	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214 220	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)3(6)(6)(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  *Comp	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education 1:	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214 220 222	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)3(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  (Offer  General Area	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214 220 222	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)2(6)(6)(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  *Comp	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education 1:	Conversational Programming OR	Area  Area MAT MAT  Techi  CMM CMM CMM CMM CMM CMM CMM CMM CMM C	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214 220 222 224	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)2(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  *Comp	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education 1:	Conversational Programming OR	Area MAT MAT  Techi CMM CMM CMM CMM CMM CMM CMM CMM CMM CM	1: 116 126 116 126 110 112 114 118 120 122 124 130 134 138 210 212 214 220 222 224 110	Written Communication, Oral Communications, or Heritage/Humanities  Technical Mathematics OR. Technical Algebra and Trigonometry or Higher  Subtotal  Electives (Co-op or Practicum)  Subtotal:  Computer/Digital Literacy*  Fundamentals of Machine Tools A AND.  Fundamentals of Machine Tools B OR  Fundamentals of Machine Tools B OR  Fundamentals of Machine Tools  Metrology/Control Charts  Applied Machining I AND.  Applied Machining II OR  Applied Machining II OR  Manual Programming OR  Manual Programming OR  Manual Programming & CNC Machines  Industrial Machining II OR  Industrial Machining II OR  Industrial Machining II OR  Industrial Machining II OR  Advanced Industrial Machining I AND  Advanced Industrial Machining II OR  Mechanical Blueprint Reading for Machinist AND  Mechanical Blueprint Reading for Machinist OR  Blueprint Reading for Machinist	3(3) 61 10-34(7)3(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  *Comp	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education 1:	Conversational Programming OR	Area MAT MAT  Techi  CMM CMM CMM CMM CMM CMM CMM CMM CMM C	1: 116 126  116 126  110 112 114 118 120 122 124 130 134 138 210 212 214 220 222 224 110 210	Written Communication, Oral Communications, or Heritage/Humanities	3(3) 61 10-34(7)3(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)		
CMM CMM CMM CMM CMM CMM CMM BRX BRX BRX  *Complet  *Comp	230 234 2401 2402 240 244 110 210 112  utter/Digit red at ASO ral Education 1:	Conversational Programming OR	Area MAT MAT  Techi  CMM CMM CMM CMM CMM CMM CMM CMM CMM C	1: 116 126  116 126  110 112 114 118 120 122 124 130 134 138 210 212 214 220 222 224 110 210	Written Communication, Oral Communications, or Heritage/Humanities  Technical Mathematics OR. Technical Algebra and Trigonometry or Higher  Subtotal  Electives (Co-op or Practicum)  Subtotal:  Computer/Digital Literacy*  Fundamentals of Machine Tools A AND.  Fundamentals of Machine Tools B OR  Fundamentals of Machine Tools B OR  Fundamentals of Machine Tools  Metrology/Control Charts  Applied Machining I AND.  Applied Machining II OR  Applied Machining II OR  Manual Programming OR  Manual Programming OR  Manual Programming & CNC Machines  Industrial Machining II OR  Industrial Machining II OR  Industrial Machining II OR  Industrial Machining II OR  Advanced Industrial Machining I AND  Advanced Industrial Machining II OR  Mechanical Blueprint Reading for Machinist AND  Mechanical Blueprint Reading for Machinist OR  Blueprint Reading for Machinist	3(3) 61 10-34(7)2(6)(6)(6)(6)(6)(6)(6)(6)(6)(6)		

Progression in the Construction Technology Program is contingent upon

achievement of a grade of "C" or better in each technical and mathemat-

ics course and maintenance of a 2.0 cumulative grade point average or

better (on a 4.0 scale).

			a. n. r	224	
		Certificates	CMM		CNC Machines and Coding Practices
			BRX BRX	110 112	Basic Blueprint Reading for Machinist OR
		Exploratory Machining I - 4805033199	ысл	112	Computer/Digital Literacy*0- 3
(Offe	red at A	ISC, BLC, BSC, ELC, GTW, HPC, JFC, MDC, MYC, OWC, SEC, SKY,	MAT	116	Technical Mathematics or
` D		SMC,WKC)	MAT	126	Technical Algebra and Trigonometry or Higher(3)
CMM	110	Fundamentals of Machine Tools A AND			Total Credits 26-31
CMM	112	Fundamentals of Machine Tools B AND4			
		Electives (Technical or Gen Ed) OR5			Tool & Die Apprentice - 4805033130
CMM	114	Fundamentals of Machine Tools AND(7)			(Offered at BLC, JFC, MDC, SEC)
CMM	120	Electives (Technical or Gen Ed) OR	CMM	150	Shop Theory Or
CMM CMM		Manual Programming AND         (3)           CAD/CAM/CNC AND         (3)	CMM		Fundamentals of Machine Tools A(3)
CIVIIVI	132	Elective (Technical or Gen Ed) OR	CMM		Metrology/Control Charts
CMM	134	Manual Programming/CAD/CAM/CNC AND(6)	CMM	151	Machinery's Handbook/Metallurgy OR3
		Elective (Technical or Gen Ed) OR	CMM	112	Fundamentals of Machine Tools B(4)
CMM	138	Intro to Programming & CNC Machines OR(6)	CMM	152	Jigs, Fixtures and Gaging OR
		Elective (Technical or Gen Ed)6	CMM		Applied Machining I(3)
		Total Credits 12	CMM		Mold Theory
			CMM		Die Theory
		Machine Tool Operator I - 4805033109	CMM CMM	130 132	Manual Programming         3           CAD/CAM/CNC         3
(Offar	rad at 4	SC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MDC, MYC, OWC, SEC,	BRX	110	Basic Blueprint Reading for Machinist
ОДЕ	eu ui 11	SKY, SMC, WKC)	BRX	210	Mechanical Blueprint Reading
CMM	110	Fundamentals of Machine Tools A AND	MAT	116	Technical Mathematics
CMM		Fundamentals of Machine Tools B OR	WLD	151	Basic Welding A OR2
CMM		Fundamentals of Machine Tools(7)			Computer/Digital Literacy* OR(0-3)
CMM	130	Manual Programming OR	IEX	295	Special Problems III(3)
CMM	134	Manual Programming CAD/CAM/CNC OR(6)			Total Credits 29-34
CMM	138	Intro to Programming & CNC Machines(6)			
BRX	110	Basic Blueprint Reading for Machinist OR		CN	IC Machining & Waterjet Technology - 4805033189
BRX	112	Blueprint Reading for Machinist		0.1	(Offered at BLC, SEC)
MAT	116	Technical Mathematics	CMM	138	Intro to Programming and CNC Machines
		Total Credits: 15-20	CMM	234	CNC Machines & Coding Practices
		M 1' T 10 1 11 1005000440	CMM	244	Advance Programming/Setup Practices6
		Machine Tool Operator II - 4805033119			Total Credits 18
(Offe	red at A	ISC, BLC, BSC, ELC, GTW, HPC, JFC, MDC, MYC, OWC, SEC, SKY, SMC,WKC)	* Comp	uter/Dig	gital literacy must be demonstrated either by competency exam or by
CMM	110	Fundamentals of Machine Tools A AND	comple	ting a cor	mputer/digital literacy course
CMM		Fundamentals of Machine Tools B OR 4			
CMM	114	Fundamentals of Machine Tools(7)			Construction Technology
CMM	118	Metrology/Control Charts			oonstruction roominology
CMM	120	Applied Machining I AND	The C	onetru	ction Technology program is designed to prepare students
CMM		Applied Machining II OR			el positions in the construction industry. Residential and
CMM		Applied Machining(6)		-	rcial construction applications are taught. This program in-
CMM CMM	130	Manual Programming CAD/CAM/CNC OP (6)			ctional units in blueprint reading, building site layout proce-
CMM		Manual Programming CAD/CAM/CNC OR(6) Intro to Programming & CNC Machines(6)			ation systems, light framing construction methods, exterior
BRX	110	Basic Blueprint Reading for Machinist OR			inish systems, concrete forming systems and construction
BRX	112	Blueprint Reading for Machinist			of instruction are designed to include lecture and practical
		Computer/Digital Literacy* 0 – 3			the lab or on-site projects. This program also offers an ex-
MAT	116	Technical Mathematics OR			quisite for students that plan to pursue a career in areas such
MAT	126	Technical Algebra and Trigonometry or Higher(3)			on management, civil engineering or architectural design.
		Total Credits 23-31	us com	on ucti	gomene, erm engineering of architectural design.
		CNC Operator - 4805033129	the pr	inciples	uilding Technology certificate familiarizes students with s of green building technologies and methods of sustainable
		(Offered at BLC, HPC, JFC, MDC, SEC, SMC,WKC)			Emphasis is placed on green materials used in the con-
CMM		Fundamentals of Machine Tools A AND			ouildings along with alternative and/or renewable energy
CMM		Fundamentals of Machine Tools B OR			ers both Leadership in Energy and Environmental Design
CMM		Fundamentals of Machine Tools			the National Green Building Standard's rating systems for
CMM CMM		Metrology/Control Charts	the ce	rtificati	ion process of green buildings.

CMM 132

CMM 134

CMM 138

CMM 2301

CMM 230

2302

CMM

CAD/CAM/CNC OR ...... 3

Manual Programming CAD/CAM/CNC OR.....(6)

Intro to Programming & CNC Machines.....(6)

Conversational Programming OR .....(6)

		Associate in Applied Science	CAR CAR	196 197	Light Frame Construction II
		0tti Tkl 4000017000	CAR	200	Light Frame Construction III
		Construction Technology - 4602017029	CAR	201	Light Frame Const. III–Lab
		(Offered at BLC, ELC)	CAR	298	Practicum in Construction OR
Gene	eral Edu	ication Requirements:	CAR	299	Co-op in Construction(2)
		Written Communication	ISX	100	Industrial Safety
MAT	105	Business Mathematics OR			Technical Electives*
		Higher level Quantitative Reasoning course 3			Subtotal 42-45
		Social/Behavioral Sciences			Total 48-51
		Heritage/Humanities			
		Natural Sciences		0	iteracy must be demonstrated either by competency exam or by
		Oral Communications	•	0 0	tal literacy course.
		Subtotal			Electives: (This list is not all inclusive. Other
Tech	nical R	equirements:			hnical or general education] may be taken as
		Digital Literacy or demonstrated competency 0-3			y Carpentry instructor.)
BRX	220	Blueprint Reading For Construction	BRX	120	Basic Blueprint Reading
CAR	126	Intro to Construction	CAR	150	Construction Formwork
CAR	127	Intro to Construction-Lab	CAR	151	Construction Formwork - Lab
CAR	140	Surveying & Foundations	CAR	198	Special Topics in Construction
CAR	141	Surveying & Foundations-Lab	CAR	240	Light Frame Construction IV
CAR	190	Light Frame Construction I	CAR	241	Light Frame Const. IV-Lab
CAR	191	Light Frame Const. I-Lab			Finish Carpenter - 4602014029
CAR	196	Light Frame Construction II			•
CAR	197	Light Frame Const. II-Lab			(Offered at JFC)
CAR	200	Light Frame Construction III	Gene	ral Edu	cation Requirements: (6-9 credit hours)
CAR CAR	201 298	Light Frame Const. III-Lab	Area 1	:	Written Communication, Oral Communications,
CAR	299	Co-op in Construction			Or Humanities/Heritage
ISX	100	Industrial Safety	Area 2	:	Social/Behavioral Sciences, Natural
1071	100	Technical Electives* 10			Sciences or Quantitative Reasoning
		Subtotal 42-45			Subtotal 6
		Total 60-63			or EFM 100 may be taken for 3 credit hours of Social Interaction to meet eral Education requirements.
Note: I	Digital Lite	eracy must be demonstrated either by competency exam or by completing	Tech	nical R	equirements:
		al literacy course.			Digital Literacy course OR demonstrated competency 0-3
*Tecl	hnical i	Electives: (This list is not all inclusive. Other	INF	105	Introduction to Painting
		chnical or general education] may be taken as	INF	111	Advanced Painting
		y Construction Technology instructor.)	INF	115	Introduction to Wall covering
BRX	120		INF	121	
		Basic Blueprint Reading			Advanced Wall Covering
CAR	150	Basic Blueprint Reading	INF	125	Advanced Wall Covering
CAR	150	Basic Blueprint Reading         3           Construction Formwork         3           Construction Formwork - Lab         2	INF INF	125 131	Advanced Wall Covering
	150	Construction Formwork	INF INF INF	125 131 205	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3
CAR	150 151	Construction Formwork	INF INF INF INF	125 131 205 211	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2
CAR CAR	150 151 198	Construction Formwork         3           Construction Formwork - Lab         2           Special Topics in Construction         1 - 6	INF INF INF INF	125 131 205 211 220	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2
CAR CAR CAR	150 151 198 240	Construction Formwork       3         Construction Formwork - Lab       2         Special Topics in Construction       1 - 6         Light Frame Construction IV       3         Light Frame Const. IV-Lab       2	INF INF INF INF INF	125 131 205 211 220 298	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2         Practicum (or)       2
CAR CAR CAR	150 151 198 240	Construction Formwork         3           Construction Formwork - Lab         2           Special Topics in Construction         1 - 6           Light Frame Construction IV         3	INF INF INF INF	125 131 205 211 220	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2
CAR CAR CAR	150 151 198 240 241	Construction Formwork       3         Construction Formwork - Lab       2         Special Topics in Construction       1 - 6         Light Frame Construction IV       3         Light Frame Const. IV-Lab       2         Diploma         Construction Carpenter - 4602014019	INF INF INF INF INF	125 131 205 211 220 298	Advanced Wall Covering       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2         Practicum (or)       2         Cooperative Education in Construction       (2)
CAR CAR CAR	150 151 198 240 241	Construction Formwork       3         Construction Formwork - Lab       2         Special Topics in Construction       1 - 6         Light Frame Construction IV       3         Light Frame Const. IV-Lab       2             Diploma	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering.       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2         Practicum (or)       2         Cooperative Education in Construction       (2)         Subtotal       21-24         Total Credits       27-30
CAR CAR CAR CAR	150 151 198 240 241	Construction Formwork       3         Construction Formwork - Lab       2         Special Topics in Construction       1 - 6         Light Frame Construction IV       3         Light Frame Const. IV-Lab       2         Diploma         Construction Carpenter - 4602014019	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering.       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2         Practicum (or)       2         Cooperative Education in Construction       (2)         Subtotal       21-24         Total Credits       27-30         eracy must be demonstrated either by competency exam or by completing
CAR CAR CAR CAR	150 151 198 240 241 (Offered	Construction Formwork   3   3     Construction Formwork   Lab   2   2     Special Topics in Construction   1 - 6     Light Frame Construction IV   3   3   Light Frame Const. IV-Lab   2     Diploma   Construction Carpenter - 4602014019   at ASC, BLC, BSC, ELC, JFC, MYC, OWC, SEC, SMC, WKC)	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering
CAR CAR CAR CAR	150 151 198 240 241 (Offered	Construction Formwork	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering.       2         Introduction to Drywall       2         Advanced Drywall       2         Introduction to Acoustical Carpentry       3         Advanced Acoustical Carpentry       2         Customer Relations       2         Practicum (or)       2         Cooperative Education in Construction       (2)         Subtotal       21-24         Total Credits       27-30         eracy must be demonstrated either by competency exam or by completing
CAR CAR CAR CAR	150 151 198 240 241 (Offered	Construction Formwork	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering
CAR CAR CAR CAR	150 151 198 240 241 (Offered	Construction Formwork	INF INF INF INF INF CAR	125 131 205 211 220 298 299	Advanced Wall Covering
CAR CAR CAR CAR	150 151 198 240 241 (Offered	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita	125 131 205 211 220 298 299	Advanced Wall Covering
CAR CAR CAR CAR CAR Area 1	150 151 198 240 241 (Offered eral Edu	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita	125 131 205 211 220 298 299	Advanced Wall Covering
CAR CAR CAR CAR CAR Area 1	150 151 198 240 241 (Offered eral Edu	Construction Formwork	INF INF INF INF INF CAR	125 131 205 211 220 298 299 Digital Lite	Advanced Wall Covering
CAR CAR CAR CAR CAR Area 1	150 151 198 240 241 (Offered eral Edu	Construction Formwork	INF INF INF INF INF CAR Note: I a digita	125 131 205 211 220 298 299 Digital Lite I literacy of	Advanced Wall Covering
CAR CAR CAR CAR CAR Area 1	150 151 198 240 241 (Offered eral Edu	Construction Formwork	INF INF INF INF INF CAR Note: I a digita	125 131 205 211 220 298 299 Digital Lite 1 literacy of	Advanced Wall Covering
CAR CAR CAR CAR CAR CAR  CAR  CAR  CAR	150 151 198 240 241 (Offered eral Edu :: 2: WPP200 o ploma Gen	Construction Formwork	INF INF INF INF INF CAR Note: I a digital	125 131 205 211 220 298 299 Digital Lite I literacy of 220 126 127 140 141	Advanced Wall Covering
Genee Area 1 Note: V the Dip Tech:	150 151 198 240 241 (Offered eral Edu 1: 2: WPP200 o ploma Gen nical R	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita  ((C BRX CAR CAR CAR	125 131 205 211 220 298 299 Digital Lite 1 literacy of 220 126 127 140 141 190	Advanced Wall Covering
Genee Area 1 Area 2 Note: V the Dip Tech:	150 151 198 240 241 (Offered eral Edu 1: 2: WPP200 o ploma Gen nical R	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita  ((C BRX CAR CAR CAR	125 131 205 211 220 298 299 Digital Lite I literacy of 220 126 127 140 141	Advanced Wall Covering
Genee Area 1 Area 2 Note: V the Dip Tech:	150 151 198 240 241 (Offered eral Edu 1: 2: WPP200 o ploma Gen nical R	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita  ((C BRX CAR CAR CAR	125 131 205 211 220 298 299 Digital Lite 1 literacy of 220 126 127 140 141 190	Advanced Wall Covering
Genee Area 1 Area 2 Note: V the Dip Tech:	150 151 198 240 241 (Offered eral Edu 1: 2: WPP200 o ploma Gen nical R	Construction Formwork	INF INF INF INF INF CAR  Note: I a digita  ((C BRX CAR CAR CAR	125 131 205 211 220 298 299 Digital Lite 1 literacy of 220 126 127 140 141 190	Advanced Wall Covering

CAR

191

		Construction Forms Helper - 4602013029			Residential Roofer - 4602013069
(0	Offered at .	ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC,WKC)	(0	Offered at	t ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC,WKC)
BRX	220	Blueprint Reading for Construction	BRX	220	Blueprint Reading for Construction
CAR	126	Intro to Construction	CAR	126	Intro to Construction
CAR	127	Intro to Construction-Lab	CAR	127	Intro to Construction-Lab
CAR	150	Construction Formwork	CAR	196	Light Frame Construction II – Ceilings and Roofs 3
CAR	151	Construction Formwork - Lab	CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab) 2
		Electives: (*Suggested Technical Electives)			Total Credits 12
		Total Credits 18			
<b>*</b> C	17				Residential Site Layout Assistant - 4602013079
-	_	Technical Electives:	(0		t ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC,WKC)
		ot all inclusive. Other courses [technical or	CAR	126	Intro to Construction
		cation] may be taken as approved by Construction	CAR	127	Intro to Construction-Lab
Techr	nology	Program Coordinator.	CAR	140	Surveying & Foundations
BRX	120	Basic Blueprint Reading(3)	CAR	141	Surveying & Foundations-Lab
ISX	100	Industrial Safety(3)			Electives: *Suggested Technical Electives
CAR	140	Construction Surveying and Foundation Systems(3)			Total Credits 15
CAR	141	Construction Surveying and Foundation Systems-Lab(2)			
CAR	150	Construction Formwork(3)	*Sug	gested	Technical Electives:
CAR	151	Construction Formwork – Lab(2)		_	
CAR	190	Light Frame Construction I- Floors and Walls(3)			not all inclusive. Other courses (technical or
CAR	191	Light Frame Construction I- Floors and Walls-Lab(2)	_		ication) may be taken as approved by Construction
CAR	196	Light Frame Construction II- Ceilings and Roofs(3)	Techi	nology	Program Coordinator.
CAR	197	Light Frame Construction II- Ceilings and Roofs-Lab(2)	BRX	120	Basic Blueprint Reading(3)
CAR	198	Special Topics in Construction	BRX	220	Blueprint Reading for Construction(3)
CAR	200	Light Frame Construction III- Exterior and Interior Finish . (3)	ISX	100	Industrial Safety(3)
CAR	201	Light Frame Construction III- Exterior	CAR	150	Construction Formwork(3)
		and Interior Finish-Lab(2)	CAR	151	Construction Formwork-Lab(2)
CAR	240	Light Frame Construction IV – Cabinetry and Trim	CAR	190	Light Frame Construction I-Floors and Walls(3)
		Carpentry Techniques(3)	CAR	191	Light Frame Construction I-Floors and Walls(2)
CAR	241	Light Frame Construction IV – Cabinetry and Trim	CAR	196	Light Frame Construction II-Ceilings and Walls(3)
		Carpentry Techniques (Lab)(2)	CAR	197	Light Frame Construction II-Ceilings and Walls-Lab(2)
*\$1100	nested (	General Education Electives:	CAR	198	Special Topics in Construction(1-6)
TEC	200	Technical Communications(3)	CAR	200	Light Frame Construction III-Exterior and Interior Finish(3)
COM	181	Basic Public Speaking(3)	CAR	201	Light Frame Construction III-Exterior and
COM	252	Intro to Interpersonal Communications(3)			Interior Finish-Lab(2)
MAT	105	Business Mathematics(3)	CAR	240	Light Frame Construction IV-Cabinetry and Trim
MAT	110	Applied Mathematics(3)			Carpentry Techniques(3)
MAT	116	Technical Mathematics	CAR	241	Light Frame Construction IV-Cabinetry and Trim
PHX	150	Introductory Physics(3)			Carpentry Techniques-Lab(2)
EFM	100	Personal Financial Management(3)	*Sug	gested	General Education Electives:
WPP	200	Workplace Principles(3)	TEC	200	Technical Communications(3)
			COM		Basic Public Speaking(3)
		HX 150, EFM 100 and WPP 200 may be used to fill diploma general	COM	252	Intro to Interpersonal Communications(3)
educano	on requirer	ments only.	MAT	105	Business Mathematics(3)
		Decidential Cornenter ACO2012050	MAT	110	Applied Mathematics(3)
		Residential Carpenter - 4602013059	MAT	116	Technical Mathematics(3)
(0	)ffered at .	ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC,WKC)	PHX	150	Introductory Physics(3)
BRX	220	Blueprint Reading for Construction	EFM	100	Personal Financial Management(3)
CAR	126	Intro to Construction	WPP	200	Workplace Principles(3)
CAR	127	Intro to Construction-Lab			
CAR	140	Surveying & Foundations			PHX 150, EFM 100 and WPP 200 may be used to fill diploma general ements only.
CAR	141	Surveying & Foundations-Lab	caucan	on require	enicits only.
CAR	190	Light Frame Construction I – Floors and Walls			Rough Carpenter - 4602013089
CAR	191	Light Frame Construction I – Floors and Walls (Lab) 2		· · · · · ·	• 1
CAR	196	Light Frame Construction II – Ceilings and Roofs		~	t ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC,WKC)
CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab) 2	BRX	220	Blueprint Reading for Construction
CAR	200	Light Frame Construction III – Exterior and Interior Finish 3	CAR	126	Intro to Construction
CAR	201	Light Frame Construction III – Exterior and	CAR	127	Intro to Construction-Lab
		Interior Finish (Lab)	CAR	140	Surveying & Foundations
CAR	240	Light Frame Construction IV – Cabinetry	CAR	141	Surveying & Foundations-Lab
		and Trim Carpentry Techniques	CAR	190	Light Frame Construction I – Floors and Walls
CAR	241	Light Frame Construction IV – Cabinetry and Trim	CAR	191	Light Frame Construction I – Floors and Walls (Lab) 2
		Carpentry Techniques (Lab)	CAR	196	Light Frame Construction II – Ceilings and Roofs
		Total Credits 32	CAR	197	Light Frame Construction II – Ceilings and Roofs (Lab) 2
					Total Credits 22

#### **Basic Carpenter - 4602013139** (Offered at ASC, BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC, WKC) CAR CAR 127 Electives: (Any five [5] additional credits, program or **Total Credits** Acoustical Carpenter - 4602013119 (Offered at BSC, ELC, JFC, SEC) INF 205 INF 211 Total Credits Dry Waller - 4602013039 (Offered at BSC, ELC, JFC, SEC) INF 125 INF 131 **Total Credits** Painter, Interior Finish - 4602013049 (Offered at BSC, JFC, SEC) INF 105 **INF** 111 **Total Credits** Painter, Paper Hanger - 4602013129 (Offered at BSC, JFC, SEC) 105 INF INF 111 INF 115 INF 121 **Total Credits** Green Building Technology - 4602013159 (Offered at ASC, JFC, OWC, SEC, WKC) BRX220 CAR 270 126 CAR 127 CAR **Total Credits** \*Suggested Technical Electives: Select a minimum of 10 credit hours. (This list is not all inclusive. Other courses may be taken as approved by Construction Technology Instructor.) COS 114 CAR 141 CAR 190

Light Frame Construction I – Floors and Walls (Lab) ......... 2

Light Frame Construction II – Ceilings and Roofs (Lab) ..... 2

Light Frame Construction III-Exterior and Interior Finish.... 3

Light Frame Construction III-Exterior and

# Cosmetology

Knowledge of the theories of hair, skin, and nail care is coupled with practice of the various techniques used in salons.

Any person enrolling in a cosmetology program shall meet KCTCS admission requirements and complete an application for enrollment provided by the Board of Hairdressers and Cosmetologists. As required by the Board of Hairdressers and Cosmetologists, the applicant shall furnish proof that he or she has earned a high diploma or its equivalent.

Documentation of digital literacy as defined by KCTCS is required prior to graduation for the diploma credential.

Progression in the Cosmetology program is contingent upon achievement of a grade of "C" or better in each technical course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

After successful completion of the prescribed 1800 hours of instruction and the six-month apprenticeship, program graduates are eligible to take the examination administered by the Kentucky Board of Hairdressers and Cosmetology to become licensed cosmetologists.

After successful completion of the prescribed 1000 hours of instruction, program graduates are eligible to take the examination administered by the Kentucky Board of Hairdressers and Cosmetology to become licensed cosmetology instructors.

After successful completion of the prescribed 600 hours of instruction, program graduates are eligible to take the examination administered by the Kentucky Board of Hairdressers and Cosmetology to become licensed nail technicians.

After successful completion of the prescribed 1000 hours of instruction, program graduates are eligible to take the examination administered by the Kentucky Board of Hairdressers and Cosmetology to become licensed estheticians.

# Diploma

## Cosmetologist - 1204014019

(Offered at ASC, BLC, BSC, GTW, HZC, JFC, SMC, WKC)

#### **General Education:**

Written Communication, Oral Communications,	
or Humanities/Heritage	. 3
Social/Behavioral Sciences, Natural Sciences,	
or Quantitative Reasoning	. 3
Subtotal	6
	or Humanities/Heritage

NOTE: Documentation of computer/digital literacy as defined by KCTCS is required prior to graduation.

#### **Technical Courses:**

El4	_	Total Credits	60
		Subtotal	54
COS	220	Cosmetology IV	12
COS	218	Cosmetology III	14
COS	116	Cosmetology II	14
COS	114	Cosmetology I	14

#### **Electives:**

COS	135	Individual Requirements I	1 -	8
COS	235	Individual Requirements II	1-	8

CAR

CAR

CAR

CAR

CAR

191

196

197

200

### **Certificates**

### Cosmetologist - 1204013039

	(Off	ered at ASC, BLC, BSC, GTW, HZC, JFC, MYC, SMC,WKC)
COS	114	Cosmetology I
COS	116	Cosmetology II
COS	218	Cosmetology III
COS	220	Cosmetology IV
		Total Credits 54
Electi		
COS	135	Indicided Description 10
COS	235	Individual Requirements I
COS	233	Individual Requirements II
	I	Apprentice Cosmetology Instructor - 1204013019
		(Offered at ASC, BSC, GTW, HZC, JFC, SMC, WKC)
COS	210	Student Teaching I
COS	212	Student Teaching II
COS	214	Student Teaching III
		Total Credits 39
Electi	ves:	
COS	135	Individual Requirements I1-8
COS	235	Individual Requirements II
		Nail Technician - 1204013029
		Nan iccinicali izotoloco
COS	150	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)
COS COS	150 152	(Offered at ASC, BSC, HZC, JFC, MYC, SMC, WKC) Basic Nail Tech
		(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)
COS	152	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC) Basic Nail Tech
COS	152	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC) Basic Nail Tech
COS	152	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC) Basic Nail Tech
COS  Electi COS	152 ives: 135	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC) Basic Nail Tech
COS  Electi COS	152 ives: 135	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech.       13         Applied Nail Technology.       13         Total Credits       26         Individual Requirements I.       1-8         Individual Requirements II.       1-8         Esthetician - 1204093019
COS  Electi COS	152 ives: 135	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC) Basic Nail Tech
COS  Electi COS COS	152 ives: 135 235	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech
Electicos COS	152 ives: 135 235	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech
Electicos cos cos cos	152 ives: 135 235	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech
Electicos cos cos cos	152 ives: 135 235 105 205 275	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech
COS  Electi COS COS  COS COS  Electi	152 ives: 135 235 105 205 275	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech       13         Applied Nail Technology       13         Total Credits       26         Individual Requirements I       1-8         Individual Requirements II       1-8         Esthetician - 1204093019       (Offered at BLC, WKC)         Esthetician I       14         Esthetician III       14         Esthetician III       13         Total Credits       41
Electi COS COS	152 ives: 135 235 105 205 275	(Offered at ASC, BSC, HZC, JFC, MYC, SMC,WKC)         Basic Nail Tech

# **Criminal Justice**

The Criminal Justice Program prepares the student for entry level work in the fields of law enforcement, corrections, court systems, loss safety and prevention, and other related occupations. The Criminal Justice vocations have evolved from jobs with minimal requirements to employment positions that require complex knowledge and skills. The Criminal Justice Program Curriculum provides the student with a foundation of theory, principles, and techniques employed by the criminal justice agencies. Graduates who complete an AAS Criminal Justice Degree may seek job opportunities on the federal, state, county, municipal levels of government, and private sectors of the criminal justice field.

Progression in the Criminal Justice Program is contingent upon the achievement of a grade of "C" or better in each CRJ course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

Graduation of an AAS Criminal Justice Degree or program certificate(s) is contingent on the completion of the approved post exit exam as identified by the Criminal Justice KCTCS Curriculum Committee. Failure to complete the identified and approved post exit exam will result in the

failure to complete required Criminal Justice Program requirements (as identified by the Criminal Justice KCTCS Curriculum Committee), and graduation of the AAS Criminal Justice Degree or program certificate(s) will not be issued to the student.

Criminal Justice Program Certificates are embedded in the Criminal Justice AAS Degree. The certificates are not stand alone certificates; therefore a student cannot receive financial aid for just a certificate. The student must be a Criminal Justice AAS Degree seeker in order to obtain program certificates.

Criminal background checks are currently not required for the Criminal Justice AAS Program; however students should understand that certain disqualifiers may hinder employment in the field of criminal justice. Such disqualifiers include, but are not limited to the following: criminal convictions, substance abuse, offensive social media activities, excessive traffic related offenses, and visible tattoos and body piercings. Students seeking employment in the criminal justice field or related field should research the requirements and disqualifiers of their desired areas or agencies of employment.

# Associate in Applied Science

### Criminal Justice - 4301037039

(Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,WKC)

Available Completely Online

	. ,
General E	cation:
ENG 1	Writing I
ENG 1	Writing II
COM 1	Basic Public Speaking OR
COM 2	Introduction to Interpersonal Communication(3)
	Quantitative Reasoning Course
	Natural Sciences Course
	Heritage/Humanities Course
POL 1	American Government OR
POL 2	State Government(3)
PSY 1	General Psychology
SOC 1	Introduction to Sociology
	Elective Courses (Can be Technical or General Education
	Elective courses)6
	Subtotal: 33
	Computer/Digital Literacy OR General Education Elective . 3
	1 0 /

(Computer/Digital Literacy ON General Education Elective . 5
(Computer/Digital Literacy must be demonstrated either by competency exam or by completing an approved computer/digital literacy course; if student does not have to take a computer/digital literacy class then the student must choose a general education elective for the completion of the three (3) hours).

Subtotal:

3

Tech	nical (	Core Requirements:	
CRJ	100	Introduction to Criminal Justice	3
CRJ	216	Criminal Law	3
CRJ	217	Criminal Procedures	3
CRJ	204	Criminal Investigations	3
CRJ	202	Issues and Ethics in Criminal Justice	
		Subtotal:	15

### Criminal Justice Track - 430103701

(Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)

# Track Electives: (Choose 9 credit hours from the following courses)

CRJ	102	Introduction to Corrections
CRJ	108	Advanced Firearms and Less Than Lethal Weapons4
CRI	110	Principles of Asset Protection

CRJ	201	Introduction to Criminalistics	CRJ	277	Introduction to Criminology	3
CRJ	203	Community Corrections/Probation & Parole	CRJ	290	Internship in Criminal Justice	3
CRJ	208	Delinquency and the Juvenile Justice System	CRJ	299	Selected Topics in Criminal Justice	1-3
CRJ	210	Physical Security Technology and Systems			Subtotal	9
CRJ	211	Liability and Legal Issues			m 1 · 1m ·	
CRJ	215	Introduction to Law Enforcement			Technical Elective	
CRJ	218	Police Supervision			Subtotal	0-3
CRJ	219	Police Recruit Defensive Tactics4			Total Credits	60-63
CRJ	220	Introduction to Computer Forensics				
CRJ	222	Prison and Jail Administration				
CRJ	224	Basic Traffic Collision Investigation		,	Security and Loss Prevention Track - 430103704	
CRJ	225	Driving and Traffic Enforcement for Law Enforcement 4	(Offe		C, BLC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SE	C. SMC.
CRJ	230	Criminal Justice Courtroom Procedures	` D		WKC)	,
CRJ	231	Legal Aspects of Corrections			Available Completely Online	
CRJ	240	Introduction to Corporate and Industrial Security 3			, ,	
CRJ	245	Introduction to Business and Financial Fraud	Requ	aired c		
CRJ	277	Introduction to Criminology	CRJ	110	Principles of Asset Protection	3
CRJ	279	Terrorism and Political Violence			Subtotal	3
CRJ	290	Internship in Criminal Justice				
CRJ	299	Selected Topics in Criminal Justice	Trac	k Elect	ives: (Choose 6 credit hours from the following	ng
,		Subtotal: 9	cour	ses)		
			CRJ	210	Physical Security Technology and Systems	3
		Technical Elective	CRJ	211	Liability and Legal Issues	3
		Subtotal 0-3	CRJ	220	Introduction to Computer Forensics	
		Total Credits 60-63	CRJ	240	Introduction to Corporate and Industrial Security	
		iotal credits 00-03	CRJ	245	Introduction to Business and Financial Fraud	3
			CRJ	290	Internship in Criminal Justice	3
		Law Enforcement Track - 430103702	CRJ	299	Selected Topics in Criminal Justice	
(Off	red at ASC	C, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC,	-		Subtotal:	9
(O)	100 Ut 1150	SMC, WKC)				
					Technical Elective	
		Available Completely Online			Subtotal	0-3
Requ	aired Co	ourse:			Total Credits	60-63
CRJ	215	Introduction to Law Enforcement				
		Subtotal: 3	NOTE	: CRJ 107	Introduction to Firearms I may be used as a technical elective on	ly.
					substitute for track elective.	
			Cours	WIII HOU.		
Trac	k Electiv	ves: (Choose 6 credit hours from the following	Cours	will not		
Tracl		ves: (Choose 6 credit hours from the following	Course	will not	<i>Certificates</i>	
		ves: (Choose 6 credit hours from the following  Advanced Firearms and Less Than Lethal Weapons 4	Course	will not	Certificates	
cour	ses)	·	Coars	will not	Certificates	
<b>cour</b> CRJ	r <b>ses)</b> 108	Advanced Firearms and Less Than Lethal Weapons 4			Certificates Computer Forensics - 4301033019	C.WKC)
cour CRJ CRJ	108 201	Advanced Firearms and Less Than Lethal Weapons	(Off	ered ASC,	Certificates  Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC	
cour CRJ CRJ CRJ	108 201 208	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ	ered ASC, 100	Certificates  Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3
CRJ CRJ CRJ CRJ	108 201 208 218	Advanced Firearms and Less Than Lethal Weapons	<i>(Off</i> CRJ CRJ	ered ASC, 100 204	Certificates  Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3
CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ	ered ASC, 100 204 220	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3 (3) ice3
CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CRJ	100 204 220 230	Computer Forensics - 4301033019 BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3 (3) ice3
COURT CRJ	108 201 208 218 219 220 224	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CRJ CRJ CRJ	204 204 220 230 105	Computer Forensics - 4301033019 BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR Introduction to Computer Forensics for Criminal Justic Criminal Justice Courtroom Procedures	33 ice33
COURT CRJ	108 201 208 218 219 220 224 225	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CRJ CIT CIT	204 220 230 105	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations  Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures  Introduction to Computers  Computer Hardware and Software	
COURT CRJ	108 201 208 218 219 220 224 225 230	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	33 ice334
COURT CRJ	108 201 208 218 219 220 224 225 230 277	Advanced Firearms and Less Than Lethal Weapons       4         Introduction to Criminalistics       3         Delinquency and the Juvenile Justice System       3         Police Supervision       3         Police Recruit Defensive Tactics       4         Introduction to Computer Forensics       3         Basic Traffic Collision Investigation       4         Driving and Traffic Enforcement for Law Enforcement       4         Criminal Justice Courtroom Procedures       3         Introduction to Criminology       3         Terrorism and Political Violence       3	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160 161	Computer Forensics - 4301033019 BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	333344
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures Introduction to Computers	3 (3) ice3 3 4 4 (4)
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons       4         Introduction to Criminalistics       3         Delinquency and the Juvenile Justice System       3         Police Supervision       3         Police Recruit Defensive Tactics       4         Introduction to Computer Forensics       3         Basic Traffic Collision Investigation       4         Driving and Traffic Enforcement for Law Enforcement       4         Criminal Justice Courtroom Procedures       3         Introduction to Criminology       3         Terrorism and Political Violence       3	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160 161	Computer Forensics - 4301033019 BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	333344
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons 4 Introduction to Criminalistics 3 Delinquency and the Juvenile Justice System 3 Police Supervision 3 Police Recruit Defensive Tactics 4 Introduction to Computer Forensics 3 Basic Traffic Collision Investigation 4 Driving and Traffic Enforcement for Law Enforcement 4 Criminal Justice Courtroom Procedures 3 Introduction to Criminology 3 Terrorism and Political Violence 3 Internship in Criminal Justice 3 Selected Topics in Criminal Justice 1-3 Subtotal: 9	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160 161	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3 (3) ice3 3 4 4 (4)
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons 4 Introduction to Criminalistics 3 Delinquency and the Juvenile Justice System 3 Police Supervision 3 Police Recruit Defensive Tactics 4 Introduction to Computer Forensics 3 Basic Traffic Collision Investigation 4 Driving and Traffic Enforcement for Law Enforcement 4 Criminal Justice Courtroom Procedures 3 Introduction to Criminology 3 Terrorism and Political Violence 3 Internship in Criminal Justice 3 Selected Topics in Criminal Justice 1-3 Subtotal: 9 Technical Elective 0-3	(Off CRJ CRJ CRJ CIT CIT CIT	204 220 230 105 111 160 161	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3 (3) ice3 3 4 4 (4)
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons 4 Introduction to Criminalistics 3 Delinquency and the Juvenile Justice System 3 Police Supervision 3 Police Recruit Defensive Tactics 4 Introduction to Computer Forensics 3 Basic Traffic Collision Investigation 4 Driving and Traffic Enforcement for Law Enforcement 4 Criminal Justice Courtroom Procedures 3 Introduction to Criminology 3 Terrorism and Political Violence 3 Internship in Criminal Justice 3 Selected Topics in Criminal Justice 1-3 Subtotal: 9	(Off CRJ CRJ CRJ CIT CIT CIT	204 204 220 230 105 111 160 161	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3(3) ice33444(4)3 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CRJ CIT CIT CIT CIT CIT	204 220 230 105 111 160 161 180	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3(3) ice3344(4)3 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons 4 Introduction to Criminalistics 3 Delinquency and the Juvenile Justice System 3 Police Supervision 3 Police Recruit Defensive Tactics 4 Introduction to Computer Forensics 3 Basic Traffic Collision Investigation 4 Driving and Traffic Enforcement for Law Enforcement 4 Criminal Justice Courtroom Procedures 3 Introduction to Criminology 3 Terrorism and Political Violence 3 Internship in Criminal Justice 3 Selected Topics in Criminal Justice 1-3 Subtotal: 9 Technical Elective 0-3	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT	204 220 230 105 111 160 161 180	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3(3) ice33444(4)3 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Courtroom Procedures  Introduction to Computers  Computer Hardware and Software  Introduction to Networking Concepts OR  Network Fundamentals  Security Fundamentals  Total:  Criminal Justice Core - 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC)  Introduction to Criminal Justice	3334444
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3334444
COUR CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CR	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180 (Offere 100 202 204 216	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures Introduction to Computers  Computer Hardware and Software Introduction to Networking Concepts OR  Network Fundamentals  Security Fundamentals  Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Criminal Justice  Issues and Ethics in Criminal Justice  Criminal Investigations  Criminal Law	3334444
cour CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures  Introduction to Computers  Computer Hardware and Software  Introduction to Networking Concepts OR  Network Fundamentals  Security Fundamentals  Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC)  Introduction to Criminal Justice  Issues and Ethics in Criminal Justice  Criminal Investigations  Criminal Law  Criminal Procedures	33344443 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180 (Offere 100 202 204 216	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures Introduction to Computers  Computer Hardware and Software Introduction to Networking Concepts OR  Network Fundamentals  Security Fundamentals  Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Criminal Justice  Issues and Ethics in Criminal Justice  Criminal Investigations  Criminal Law	3334444
cour CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180 (Offere 100 202 204 216	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures  Introduction to Computers  Computer Hardware and Software  Introduction to Networking Concepts OR  Network Fundamentals  Security Fundamentals  Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC)  Introduction to Criminal Justice  Issues and Ethics in Criminal Justice  Criminal Investigations  Criminal Law  Criminal Procedures	33344443 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT CIT	100 204 220 230 105 111 160 161 180 (Offere 100 202 204 216	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR.  Criminal Investigations Introduction to Computer Forensics for Criminal Justice Courtroom Procedures. Introduction to Computers.  Computer Hardware and Software Introduction to Networking Concepts OR.  Network Fundamentals.  Security Fundamentals.  Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Criminal Justice.  Issues and Ethics in Criminal Justice Criminal Investigations Criminal Law. Criminal Procedures.  Total:	33344443 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off) CRJ CRJ CRJ CIT CIT CIT CIT CIT CIT CIT CIT	Cered ASC, 100 204 220 230 105 111 160 161 180 (Offered 100 202 204 216 217	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures Introduction to Computers Computer Hardware and Software Introduction to Networking Concepts OR Network Fundamentals Security Fundamentals Total:  Criminal Justice Core — 4301033029  and ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Criminal Justice	33334443 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT CIT CRJ CRJ CRJ CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180 (Offerd 202 204 216 217)	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	33334443 23
COURT CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(OffCR) CR) CR) CRI CIT CIT CIT CIT CIT CR] CR] CR] CR] CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180 (Offere 100 202 204 216 217	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR Introduction to Computer Forensics for Criminal Justice Criminal Justice Courtroom Procedures Introduction to Computers Computer Hardware and Software Introduction to Networking Concepts OR Network Fundamentals Security Fundamentals Total:  Criminal Justice Core — 4301033029  Ed ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Criminal Justice Criminal Investigations Criminal Procedures Total:  Corrections -4301033039  Ed ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC, WKC) Introduction to Corrections	3334443 23333333333333
cour CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(OffCR) CR) CR) CRI CIT CIT CIT CIT CIT CR] CR] CR] CR] CRJ CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180  (Offered 202 204 216 217	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3334443 233333333333333
cour CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT CIT CRJ CRJ CRJ CRJ CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180  (Offered 202 204 216 217	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	33334443 23333333333333
cour CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT CIT CRJ CRJ CRJ CRJ CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180  (Offered 202 204 216 217  (Offered 203 208 222	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3334443 23333333333333
cour CRJ	108 201 208 218 219 220 224 225 230 277 279 290 299	Advanced Firearms and Less Than Lethal Weapons	(Off CRJ CRJ CRJ CIT CIT CIT CIT CRJ CRJ CRJ CRJ CRJ	Cered ASC, 100 204 220 230 105 111 160 161 180  (Offered 202 204 216 217	Computer Forensics - 4301033019  BLC, BSC, ELC, GTW, HPC, HZC, MDC, MYC, OWC, SMC Introduction to Criminal Justice OR	3334443 23333333333333

		Law Enforcement – 4301033049	CUL CUL	111 200	Garde Manger
		ed ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC,WKC)	CUL	211	Basic Food Production4
CRJ	215	Introduction to Law Enforcement	CUL	215	Basic Baking4
CRJ	218	Police Supervision	CUL	230	Basic Nutrition OR
CRJ	204	Criminal Investigations (OR)	NFS	101	Human Nutrition and Wellness(3)
CRJ	201	Introduction to Criminalistics(3)	CUL	240	Meats, Seafood, and Poultry4
CRJ	211	Liability and Legal Issues	CUL	270	Human Relations Management
CRJ	208	Delinquency and Juvenile Justice System	CUL	280	Cost and Control
		Total:	CUL	285	Front of the House OR
			CUL	290	Front of the House/Catering(4)
		Security and Loss Prevention – 4301033059	CGL		Computer/Digital Literacy* 0-3
					Required Technical Core Hours
		ed ASC, BSC, BLC, ELC, GTW, HPC, MYC, SEC, SMC,WKC)	*C		
CRJ	110	Principles of Asset Protection			ital Literacy must be demonstrated either by competency exam or by nputer/digital literacy course.
CRJ	210	Physical Security Technology & Systems	compie	tilig a coi	inputer/digital interacy course.
CRJ	211	Liability and Legal Issues			Culinary Arts Degree Track - 120503702
CRJ	240	Introduction to Corporate Security			
CRJ	220	Introduction to Computer Forensics			(Offered at ASC, ELC, JFC, MYC, SKY, SMC, WKC)
		Total: 15			General Education
				220	Technical Core
		Advance Law Enforcement – 4301033069	CUL	220	Advanced Baking and Pastry Arts
CRJ	204	Criminal Investigations	CUL	260	International Cuisine
CRJ	215	Introduction to Law Enforcement	CUL	298	Culinary Arts Practicum Experience OR
CRJ	107	Introduction to Firearms	CUL	299	Culinary Arts Cooperative Education Experience (2-3)
CRJ	108	Advanced Firearms and Less Than Lethal Weapons 4			Total Hours 60-65
CRJ	219	Police Recruit Defensive Tactics			
CRJ	224	Basic Traffic Collision Investigation		Food a	and Beverage Management Degree Track - 120503703
CRJ	225	Driving and Traffic Enforcement for Law Enforcement 4			(Offered at ASC, JFC, MYC, SKY, SMC,WKC)
		Total: 23			General Education
					Technical Core
			BAS	160	Introduction to Business
		Culinary Arts	BAS	170	Entrepreneurship OR
		GIIIIII V ALLS			
		outiliar y fil to			Principles of Management (3)
		-	BAS	283	Principles of Management(3)
		Culinary Arts program is designed to prepare students for	BAS BAS	283 282	Principles of Management
		-	BAS BAS CUL	283 282 298	Principles of Management
caree	rs in the	Culinary Arts program is designed to prepare students for Culinary Arts, Food and Beverage Management, Restau-	BAS BAS	283 282	Principles of Management
caree rant l	rs in the Managen	Culinary Arts program is designed to prepare students for Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-	BAS BAS CUL	283 282 298	Principles of Management
caree rant l siona	rs in the Managen l Chefs.	Culinary Arts program is designed to prepare students for culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of	BAS BAS CUL	283 282 298 299	Principles of Management
rant l siona basic	rs in the Managen I Chefs. and spec	Culinary Arts program is designed to prepare students for e Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, interna-	BAS BAS CUL	283 282 298 299	Principles of Management
rant l siona basic tiona	rs in the Managen I Chefs. and spec I cuisine	Culinary Arts program is designed to prepare students for e Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internation, baking and pastry arts, nutrition, sanitation, management	BAS BAS CUL	283 282 298 299	Principles of Management
caree rant l siona basic tiona techn	rs in the Managen I Chefs. and spec I cuisine, iiques an	Culinary Arts program is designed to prepare students for Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internation, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary funda-	BAS BAS CUL	283 282 298 299	Principles of Management
caree rant l siona basic tiona techn ment	rs in the Managen I Chefs. and spec I cuisine iques an als. Stud	Culinary Arts program is designed to prepare students for Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internation, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining	BAS BAS CUL	283 282 298 299	Principles of Management
caree rant ! sional basic tional techniment room	rs in the Managen I Chefs. and spectodisting and spectodisting and als. Student through	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaument, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internable, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phi-	BAS BAS CUL	283 282 298 299	Principles of Management
caree rant l siona basic tiona techn ment room losop	rs in the Managen I Chefs. and spec I cuisine aiques an als. Stud through hy of the	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaument, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internable, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phie American Culinary Federation, the Academy of Chefs, the	BAS BAS CUL CUL	283 282 298 299	Principles of Management
caree rant I siona basic tiona techn ment room losop Natio	rs in the Managen I Chefs. and specificular and specifiques and als. Study through hy of the onal Rest	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internated functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phieral management of the course of the course of the program uses the teaching phieral management culinary Federation, the Academy of Chefs, the taurant Association Education Foundation, and the American	BAS BAS CUIL CUIL	283 282 298 299 <b>Cat</b> (	Principles of Management
caree rant l siona basic tiona techn ment room losop Natic Perso	rs in the Managen I Chefs. and spec I cuisine iques an als. Stude through hy of the onal Restonal Chef	Culinary Arts program is designed to prepare students for Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internation, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phieral merican Culinary Federation, the Academy of Chefs, the taurant Association Education Foundation, and the American f Association. The program competencies are those of the	BAS BAS CUIL CUIL	283 282 298 299 <b>Cat</b> (	Principles of Management       (3)         Principles of Marketing       3         Culinary Arts Practicum Experience OR       2-3         Culinary Arts Cooperative Education Experience       (2-3)         Total Hours       61-66         ering and Personal Chef Degree Track - 120503701         (Offered at ASC, JFC, MYC, SKY, SMC,WKC)         General Education       18         Technical Core       32-36         Advanced Baking and Pastry Arts       4         Entrepreneurship AND       3
caree rant l siona basic tiona techn ment room losop Natic Perso	rs in the Managen I Chefs. and spec I cuisine iques an als. Stude through hy of the onal Restonal Chef	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profes-Course work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internated functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phieral management of the course of the course of the program uses the teaching phieral management culinary Federation, the Academy of Chefs, the taurant Association Education Foundation, and the American	BAS BAS CUL CUL CUL BAS CUL	283 282 298 299 Cate	Principles of Management       (3)         Principles of Marketing       3         Culinary Arts Practicum Experience OR       2-3         Culinary Arts Cooperative Education Experience       (2-3)         Total Hours       61-66         ering and Personal Chef Degree Track - 120503701         (Offered at ASC, JFC, MYC, SKY, SMC,WKC)         General Education       18         Technical Core       32-36         Advanced Baking and Pastry Arts       4         Entrepreneurship AND       3         Doing Business as a Personal Chef OR       3
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caree rant ! siona basic tiona techn ment room losop Natio Perso Amei	rs in the Managen I Chefs. and special cuisine and studies and studies and studies through the of the onal Restonal Chefrican Cuircession in	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profestourse work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, international pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phieral American Culinary Federation, the Academy of Chefs, the taurant Association Education Foundation, and the American of Association. The program competencies are those of the clinary Federation.  In the Culinary Arts program is contingent upon achievede of "C" or better in each CUL and NFS courses.  **ASSOCIATE IN APPLIED SCIENCE**  Culinary Arts - 1205037029	BAS BAS CUL CUL BAS CUL BAS CUL BAS CUL	283 282 298 299 Cate  220 170 295 160 283 298	Principles of Management
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caree rant ! siona basic tiona techn ment room losop Natio Perso Amei	rs in the Managen I Chefs. and spec I cuisine iques an als. Stude through hy of the onal Restonal Cherican Curession in of a gradult in the of a g	Culinary Arts program is designed to prepare students for a Culinary Arts, Food and Beverage Management, Restaunent, Catering, Institutional Food Service, and as Profestourse work covers a broad spectrum: the preparation of cialized foods, catering and special event planning, internation, baking and pastry arts, nutrition, sanitation, management and functions, cost control, purchasing and culinary fundadents work in commercial kitchen/laboratory and dining in the course of study. The program uses the teaching phieramerican Culinary Federation, the Academy of Chefs, the taurant Association Education Foundation, and the American for Association. The program competencies are those of the culinary Federation.  In the Culinary Arts program is contingent upon achievede of "C" or better in each CUL and NFS courses.  **Associate in Applied Science**  Culinary Arts - 1205037029  **(Offered at ASC, ELC, JFC, MYC, SKY, SMC, WKC)**  ucation  Quantitative Reasoning	BAS BAS CUL CUL BAS CUL BAS BAS CUL CUL	283 282 298 299 Cat 220 170 295 160 283 298 299	Principles of Management
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WPP

**EFM** 

TEC

200

100

200

Applied Introduction to Culinary Arts.....(2)

Required General Education Hours

**Culinary Arts Technical Core** 

CUL 100

105

CUL

\* If a diploma is sought, two of the three following courses may be used for the six (6) hours general education. These courses will not count toward the AAS degree:

Personal Financial Management (Area 2).....(3)

Tech	nical o	r Support Courses	CUL	211	Basic Food Production	
~		Technical Core	CUL	215	Basic Baking	
CUL	220	Advanced Baking and Pastry Arts			Total Hours	16
CUL	260	International Cuisine				
CUL CUL	298 299	Culinary Arts Practicum Experience OR			Catering - 1205033059	
CUL	2))	Technical/ Support Total 42-47		(Offe	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK	C)
			CUL	100	Introduction to Culinary Arts OR	
		Total Hours for Culinary Arts Diploma 48-53	CUL	105	Applied Introduction to Culinary Arts	
			CUL	111	Garde Manger	
	- 1	Food and Beverage Management - 1205034039	CUL	200	Sanitation and Safety	2
		(Offered at ASC, BSC, ELC, MYC, SKY, SMC, WKC)	CUL	215	Basic Baking	
			CUL	290	Front of the House/Catering	
		acation*			Total Hours	16
Area 1 Area 2		Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or				
Mica 2	_	Quantitative Reasoning 3			Advanced Catering - 1205033079	
		•		(Offe	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK	C)
		Subtotal 6		· 3	Catering Certificate	
# TC 1:	. 1	1	CUL	211	Basic Food Production	4
		sought, two of the three following courses may be used for the six (6) acation. These courses will not count toward the AAS degree:	CUL	220	Advanced Baking and Pastry Arts	
WPP	200	Workplace Principles (Area 2) OR	CUL	240	Meats, Seafood, Poultry	
EFM	100	Personal Financial Management (Area 2)(3)	CUL	260	International Cuisine	
TEC	200	Technical Communications (Area 1)	CUL	270	Human Relations Management	
Tech	nical o	r Support Courses	CUL BAS	280 170	Cost and Control Entrepreneurship OR	
recin	ilicai O	Technical Core	BAS	160	Introduction to Business AND	
BAS	160	Introduction to Business	BAS	283	Principles of Management	
BAS	170	Entrepreneurship OR	<b>D</b> 110	203	Total Hours	41-44
BAS	283	Principles of Management(3)				
BAS	282	Principles of Marketing			Culinary Arta 1205022040	
CUL	298	Culinary Arts Practicum Experience OR			Culinary Arts - 1205033049	
CUL	299	Culinary Arts Cooperative Education Experience (2-3)			(Offered at ASC, ELC, MYC, OWC, SKY, SMC, WKC)	22.25
		Technical/SupportTotal 43-48			Culinary Arts Technical Core	
		Total Hours 49-54			Total Hours	32-36
		Catering and Personal Chef - 1205034019 (Offered at ASC, BSC, ELC, MYC, SKY, SMC, WKC)		(Offe	Advanced Culinary Arts - 1205033069  red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC, WK  Culinary Arts Technical Core	
Gene		•		(Offe		32-36
Gene Area 1 Area 2	ral Edu =	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3  Social/Behavioral Sciences, Natural Sciences, or		(Offe	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC, WK Culinary Arts Technical Core	32-36
Area 1	ral Edu =	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3  Social/Behavioral Sciences, Natural Sciences, or  Quantitative Reasoning		ω.	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours	32-36
Area 1	ral Edu =	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3  Social/Behavioral Sciences, Natural Sciences, or		ω.	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039	32-36 10-11 42-47
Area 1 Area 2	eral Edu = =	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3  Social/Behavioral Sciences, Natural Sciences, or  Quantitative Reasoning	CUL	ω.	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039 red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR	32-36 10-11 42-47
Area 1 Area 2  * If a di hours g	eral Edu = = = iploma is s	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	CUL CUL	(Offe	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track  Total Hours  Food and Beverage Management - 1205033039  red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR Applied Fundamentals of the Culinary Arts Profess	32-36 10-11 42-47 C) 2 sion (2)
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* If a di hours g WPP EFM TEC	eral Edu = = = iploma is s general edu 200 100 200	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	CUL CUL CUL	(Offe 100 105 200 211 215	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039 red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR Applied Fundamentals of the Culinary Arts Profess Sanitation and Safety Basic Food Production Basic Baking	
* If a di hours g WPP EFM TEC	eral Edu = = = iploma is s general edu 200 100 200	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	CUL CUL CUL CUL	(Offe 100 105 200 211 215 240	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039 red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR Applied Fundamentals of the Culinary Arts Profess Sanitation and Safety Basic Food Production Basic Baking Meats, Seafood, and Poultry	32-36 10-11 42-47 C)2 sion(2)2 4
* If a di hours g WPP EFM TEC	eral Edu = = iploma is s ipeneral edu 200 100 200 nical or	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	CUL CUL CUL CUL CUL	(Offe 100 105 200 211 215 240 270	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039 red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR Applied Fundamentals of the Culinary Arts Profess Sanitation and Safety Basic Food Production Basic Baking Meats, Seafood, and Poultry Human Relations Management OR	
* If a di hours g WPP EFM TEC Techt	iploma is septemental edu 200 100 200 nical or	(Offered at ASC, BSC, ELC, MYC, SKY, SMC,WKC)  Ication*  Written/Oral Communications, Humanities, or Heritage 3 Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning	CUL CUL CUL CUL	(Offe 100 105 200 211 215 240	red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Culinary Arts Technical Core Culinary Arts Degree Track Total Hours  Food and Beverage Management - 1205033039 red at ASC, BSC, ELC, JFC, MYC, OWC, SKY, SMC,WK Introduction to Culinary Arts OR Applied Fundamentals of the Culinary Arts Profess Sanitation and Safety Basic Food Production Basic Baking Meats, Seafood, and Poultry	32-36 10-11 42-47 C)2 sion(2)
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NFS	101	Human Nutrition and Wellness(3)	DHP	130	Dental Hygiene II
CUL	240	Meats, Seafood, and Poultry4	DHP	131	Oral Biology II
CUL	270	Human Relations Management	DHP	135	Dental Radiology
CUL	280	Cost and Control	DHP	136	Periodontics I
CUL	285	Front of the House OR(3)	DHP	220	Dental Hygiene III
CUL	290	Front of the House/Catering4	DHP	222	Special Needs Patients
BAS	160	Introduction to Business	DHP	224	Dental Materials
BAS	170	Entrepreneurship OR	DHP	226	Periodontics II
BAS	283	Principles of Management(3)	DHP	230	Dental Hygiene IV
BAS	282	Principles of Marketing	DHP	235	Principles of Practice
CUL	298	Culinary Arts Practicum Experience OR	DHP	238	Community Dental Health
CUL	299	Culinary Arts Cooperative Education Experience (2-3)			Subtotal Credits 39
		Total Hours 43-45			Total Program Credits 68
	۰ا:	aw. Auto Duofessianal Davidanment 1205022000	D	,	
	LUIIII	ary Arts Professional Development - 1205033099	Reco		ed Electives (Not Required)
		(Offered at SKY, SMC, WKC)	DHP	229	Local Anesthesia(2)
CUL		Students may choose 12 credit hours from	DHP	299	Independent Study Dental Hygiene(1-4)
		any Culinary Arts courses*	ENG	102	Writing II(3)
		Total Hours 12	NFS	101	Human Nutrition and Wellness(3)

120.

\*Prerequisites apply

### Baking-1205033109

		(Offered at ASC, MYC, SMC,WKC)	
CUL	100	Introduction to Culinary ArtsOR	2
CUL	105	Applied Introduction to Culinary Arts	(2)
CUL	200	Sanitation and Safety	2
CUL	215	Basic Baking	4
CUL	220	Advanced Baking	4
		Total Hours	12

# **Dental Hygiene**

This program prepares students to function as dental hygienists on a dental team under the general supervision of a dentist. The curriculum includes courses in general education and in dental hygiene as required by the Commission on Dental Accreditation and Kentucky state dental practice act. The program provides comprehensive educational experiences through lectures, clinical and related study in order that students may apply scientific knowledge in the performance of dental hygiene procedures. Students enrolled in the Dental Hygiene program must achieve a minimum grade of "C" in each Dental Hygiene and approved science course. Documentation of computer literacy as defined by KCTCS and Cardiopulmonary resuscitation (CPR) are required prior to admission to DHP courses.

# Associate in Applied Science

## Dental Hygiene - 5106027019

(Offered at BLC)

#### **General Education Core**

DHP

DHP

121

122

BIO	137	Human Anatomy & Physiology I*	4
BIO	139	Human Anatomy & Physiology I*	
BIO	226	Principles of Microbiology	
PSY	110	General Psychology	3
SOC	101	Introduction to Sociology	3
		Heritage/Humanities	3
		Quantitative Reasoning	3
		Written Communication	3
		Oral Communications	3
		Subtotal Credits	29
Techr	nical Co	urses	

Dental Hygiene I\*\* ...... 4

# Dental Assisting/Dental Hygiene Integrated Program

\*The Dental Hygiene Program at BCTC requires that BIO 137 & BIO 139 or their

equivalents be successfully completed with a grade of C or higher prior to beginning DHP

\*\*Documentation of computer/digital literacy as defined by KCTCS is required prior to admission to DHP courses. CPR certification for the healthcare provider must be obtained prior to enrolling in DHP 120 and certification must be kept current throughout the

The Dental Assisting/Dental Hygiene Integrated Program is a program that prepares graduates to function as dental auxiliaries.

The Dental Assisting Program prepares the student to function effectively as an integral member of the dental health team and to perform chairside assisting and related office and laboratory procedures under the direction and supervision of a dentist. The curriculum includes content areas in general studies, biomedical sciences, dental sciences, clinical sciences, radiography, and clinical experience. Students must achieve a minimum grade of "C" in each Dental Assisting (DAS) course, Dental Assisting/Hygiene (DAH) course, and approved science courses. Upon completion of the program, students are eligible to take the Dental Assisting National Board Examination to become a Certified Dental Assistant.

The Dental Hygiene Program prepares the student to function as a dental hygienist on a dental auxiliary team under the supervision of a dentist. The curriculum includes content areas in general studies, biomedical sciences, dental sciences, clinical sciences, radiography, periodontology, and dental hygiene clinical experience. The program provides comprehensive educational experiences through lectures, clinical, and related study in order that graduates may apply scientific knowledge in the performance of dental hygiene procedures. Students must achieve a minimum grade of "C" in each Dental Hygiene (DHG) course, Dental Assisting/Hygiene (DAH) course, and approved science courses. Upon completion, graduates are eligible to apply to take the Dental Hygiene National Board Examination. As the only licensed dental auxiliaries, dental hygienists may be employed in dental offices, clinics, dental schools, public health and government agencies.

The Dental Assisting/Dental Hygiene Integrated Program is accredited by the Commission on Dental Accreditation, a specialized accrediting agency of the American Dental Association.

# Associate in Applied Science

Dental Hygiene	- 51	106027040
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(Offered in West Consortium — Credential granted by Henderson CC but also taught at West KY CTC)

(Offered in East Consortium — Credential granted by Big Sandy CTC but also taught at Bluegrass CTC and Somerset CC)

Gene	ral Edu	ucation Classes:	
ENG	101	Writing I	3
ENG	102	Writing II	3
BIO	137	Human Anatomy & Physiology I	
BIO	139	Human Anatomy & Physiology II	4
BIO	225	Medical Microbiology	
PSY	110	General Psychology	3
SOC	101	Introductory Sociology	
MAT	110	Applied Mathematics OR	3
MAT	150	College Algebra and Functions	
		Oral Communications	
		Heritage/Humanities	3
		Subtotal	33
Integ	rated	Classes:	

Integr	rated	Classes:					
DAH	101	Infection	Control	and	Medical	Emergencie	ç

		Subtotal 13	2
DAH	235	Practice Management	
DAH	135	Oral Radiology	,
DAH	131	Oral Pathology	6
DAH	124	Materials in Dentistry	)
DAH	121	Dental Sciences	5
		intection control and intetacar Emergencies	•

### **Dental Hygiene Only Classes:**

DHG	120	Pre-Clinical Dental Hygiene	3
DHG	130	Clinical Dental Hygiene I	3
DHG	132	Pharmacology	
DHG	134	Dental Nutrition	2
DHG	136	Periodontology	1
DHG	220	Clinical Dental Hygiene II	
DHG	226	Advanced Periodontology	
DHG	230	Clinical Dental Hygiene III	3
DHG	238	Community Dental Health Issues	
		Subtotal	22
		Total Credit Hours	68
Electi	ive		

# Diploma

### Dental Assisting - 5106024019

(Offered in West Consortium — Credential granted by West KY CTC but also taught at Elizabethtown CTC and Henderson CC)

(Offered in East Consortium — Credential granted by Bluegrass CTC but also taught at Big Sandy CTC and Somerset CC)

#### **General Education Classes:**

### **Program Related Classes**

DHG 221

BIO	135	Basic Anatomy & Physiology with Laboratory OR	4
BIO	137	Human Anatomy & Physiology I AND	. (4)
BIO	139	Human Anatomy & Physiology II	. (4)
		Three credits from Written Communication, Oral	
		Communications, or Heritage / Humanities	3
PSY	110	General Psychology *	. (3)
*Require	ed at Bluegi	rass CTC, recommended at West Kentucky CTC	
•	C	Subtotal	7-14

### **Integrated Classes**

DAH	101	Infection Control and Medical Emergencies	2
DAH	121	Dental Sciences	3

DAH	124	Materials in Dentistry
DAH	131	Oral Pathology
DAH	135	Oral Radiology2
DAH	235	Practice Management
		Subtotal 13

### **Dental Assisting Only Classes**

DAS	120	Dental Assisting I	6
DAS	130	Seminar I	2
DAS	220	Dental Assisting II	9
DAS	230	Seminar II	
		Subtotal	18

Total Credit Hours 38-45

# **Dental Laboratory Technology**

This program prepares individuals to fabricate dental prosthetic appliances that replace or repair natural teeth to help patients eat, chew, talk, and smile as well as, or better than, they did before. Dental technicians work collaboratively with dentists by following a written work authorization that details the type of prosthesis needed. Dental technicians do not have direct contact with the patient but instead use stone models made from impressions of the patient's teeth and surrounding soft tissues.

The curriculum includes courses in general education and in dental laboratory technology as required by the Commission on Dental Accreditation. The curriculum includes lectures and extensive laboratory experiences to enhance the students' learning.

The dental laboratory technician has many employment options including commercial dental laboratories, dental offices that have their own laboratories, dental sales and manufacturing firms. Graduates may also choose to own a laboratory, state laws permitting, or seek a teaching position at a dental technology education program.

Dental Laboratory Technology students completing the first year of the curriculum will earn a Certificate in Dental Laboratory Technology which prepares students for employment as entry-level dental technicians.

Dental Laboratory Technology students completing two years of the curriculum will earn an Associate Degree in Applied Science which will prepare graduates for employment as technicians and graduates are eligible to take the National Board for Certification Recognized Graduate Examination and the Certified Dental Technician exam.

Applicants are accepted into the Program each fall according to the Guidelines for Admission to the Dental Laboratory Technology Program. This is a selective admissions process with approximately twenty students accepted each year. Students must maintain technical standards and a minimum GPA of at least a 2.0 (on a 4.0 scale) in the curriculum in order to progress from one semester to the next.

The Dental Laboratory Technology program is accredited by the Commission on Dental Accreditation of the American Dental Association.

For more information, visit the Dental Laboratory Technology program web site at bluegrass.kctcs.edu.

# Associate in Applied Science

# Dental Laboratory Technology - 5106037019

(Offered at BLC)

ENG	101	Writing I*3	,
ENG	102	Writing II*3	

		Bociai/ Beliavioral Belefices Course	
		Heritage/Humanities Course*	3
		Oral Communications Course*	
		Quantitative Reasoning Course*	3
		Natural Sciences Course*	
		Computer/Digital Literacy*	
DLT	101	Dental Morphology	2
DLT	111	Dental Materials I	
DLT	121	Complete Dentures I	2
DLT	131	Removable Partial Dentures I	2
DLT	151	Fixed Prosthodontics I	2
DLT	112	Dental Materials II	2
DLT	122	Complete Dentures II	2
DLT	132	Removable Partial Dentures II	
DLT	142	Occlusion	2
DLT	152	Fixed Prosthodontics II	2
DLT	261	Applied Lab Techniques	8
DLT	281	Orthodontic Lab Techniques	
DLT	262	Advanced Specialty Laboratory Techniques	
DLT	291	Dental Laboratory Management, History and Ethics	
		Total	61-64

Social / Rehavioral Sciences Course\*

## Certificate

## Dental Laboratory Technology - 5106033019

		(Offered at BLC)	
DLT	101	Dental Morphology	2
DLT	111	Dental Materials I	2
DLT	112	Dental Materials II	2
DLT	121	Complete Dentures I	2
DLT	122	Complete Dentures II	2
DLT	131	Removable Partial Dentures I	2
DLT	132	Removable Partial Dentures II	2
DLT	142	Occlusion	2
DLT	151	Fixed Prosthodontics I	2
DLT	152	Fixed Prosthodontics II	2
ENG	101	Writing I	3
		Natural Sciences Course	3
		Total	26

# **Diagnostic Medical Sonography**

Diagnostic Medical Sonography is a highly-skilled profession which uses specialized equipment to create images of structures inside the human body used by physicians to make medical diagnoses. Graduates of the program are qualified to provide patient services using diagnostic techniques under the supervision of a licensed physician.

This program contains four tracks, the general/vascular track, the general track, the vascular track and the cardiac track. The general/vascular track prepares the graduate to be a general sonographer who is qualified to perform vascular ultrasound. Sonographers have extensive, direct patient contact that may include performing some invasive procedures. The general track prepares the graduate to perform sonograms on the abdominal, small parts and OB/GYN applications. The vascular track prepares the graduate to perform sonograms on the cerbrovascular, peripheral arterial, peripheral venous and abdominal vascular applications. The cardiac track prepares the graduate to perform cardiovascular sonograms.

Sectional anatomy, ultrasonic instrumentation and imaging are the major components in this program. Skills are developed through clinical experiences using diagnostic imagery equipment.

An advanced track (certificate) in vascular sonography is offered for candidates who are currently employed and registry eligible in Diagnostic Medical Sonography.

The student is exposed to and expected to acquire skills, attitudes, and habits that are generally common to all professionals in the medical field. Graduates will be prepared for a professional career in the opted sonography field.

CPR requirement must be successfully completed prior to enrolling in the first sonography course and must be kept current throughout the program. Documentation of successful completion of a minimum 75 hour nursing assistant course or its equivalent and computer/digital literacy competency as defined by KCTCS are required prior to enrolling in the first sonography course.

Progression in the Diagnostic Medical Sonography program is contingent upon achievement of a grade of "C" or better in each Sonography course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale). Transportation to the community agencies is the responsibility of each student.

# Associate in Applied Science

### Diagnostic Medical Sonography - 5109107019

(Offered at ASC, HZC, JFC, SKY,WKC)

#### **General Education:**

DMS

DMS

DMS

DMS

DMS

121

199

201

202

260

MAT	150	College Algebra	3
ENG	101	Writing I	3
		Heritage/Humanities	3
		Social/Behavioral Sciences	3
BIO	137	Human Anatomy and Physiology I AND	4
BIO	139	Human Anatomy and Physiology II OR	4
BIO	135	Basic Anatomy and Physiology with Laboratory	
PHY	151	Introductory Physics I OR	
PHY	152	Introductory Physics II OR	(3)
PHY	171	Applied Physics	(4)
		11 ,	19-24

### General/Vascular Track – 510910701

#### (Offered at HZC,WKC) AHS 120 DMS 109 DMS 115 Sonography II......6 DMS 119 DMS 199 Online Physics Review AND/OR ......1 Online Abdomen Review AND/OR .....(1) DMS DMS 202 Online OB/GYN Review.....(1) 255 DMS

#### A total of 17 credit hours must be completed from the following clinical courses: DMS 126 Clinical Education I ......(3-4) DMS 230 Clinical Education II.....(5-8) DMS 240 Clinical Education III.....(5-8) Subtotal 50-52 69-76 **Total**

### General Track - 510910703

		(Offered at JFC, SKY)
AHS	120	Medical Terminology
NAA	100	Nursing Assistant Skills
DMS	111	Abdominal Sonography7
DMS	112	Introduction to Patient Care*(2)
DMS	116	OB/GYN Sonography6

		7 credit hours must be completed from the	4.7	DMS	230	Clinical Education II
		linical courses:	17	DMS	240	Clinical Education III
DMS	126	Clinical Education I				iotai
DMS	230	Clinical Education II	` /			
DMS	240	Clinical Education III	( )			Vascular – 5109103049
		Subtotal	43-45			(Offered at JFC)
		Total	62-69	DMS	117	Vascular Sonography I
				DMS	118	Vascular Sonography II
*Requi	ired by Ov	wensboro CTC.		DMS	121	Sonography Physics and Instrumentation
•				DMS	136	Vascular Clinical Education I
		Vascular Track – 510910704		DMS	199	Online Physics Review AND
		(Offered at JFC)		DMS	204	Online Vascular Review
AHS	120	Medical Terminology	1	DMS	206	Online Vascular Sonography III
DMS	117	Vascular Sonography I		DMS	236	Vascular Clinical Education II
DMS	118	Vascular Sonography II		DMS	237	Vascular Clinical Education III
DMS	121	Sonography Physics and Instrumentation		Divis	237	Total 42
DMS	136	Vascular Clinical Education I				10411
DMS	199	Online Physics Review			_	
DMS	204	Online Vascular Review			Ba	sic Cardiac Ultrasound Technology - 5109103059
DMS	206	Online Vascular Sonography III			_	(Offered at SKY)
DMS	236	Vascular Clinical Education II.		DMS	217	Basic Cardiac Ultrasound Technology
DMS	237	Vascular Clinical Education III.		DIVIS	217	Total 3
DMS	237					iotai 5
		Subtotal	43			
		Total	62-67			Diesel Technology
		0 1 7 1 540040700				Diodoi iddillidiogy
		Cardiac Track – 510910702		Emph	asizes th	ne skills needed to analyze malfunctions and repair, rebuild
		(Offered at ASC, JFC)				construction equipment, agriculture equipment, or me-
AHS	120	Medical Terminology	1			vy trucks in this program of study. Provides instruction
CHE	140	Introductory General Chemistry				
DMS	105	Introduction to Cardiology				ce in systems such as diesel engines, fuel injection, onboard
DMS	145	Cardiac Sonography I		comp	iters, tr	ransmissions, steering and suspension, and brakes.
DMS	205	Cardiac Sonography II				
DMS	215	Cardiac Sonography III				st receive a grade of "C" or better to receive credit for
DMS	245	Cardiac Sonography IV		succes	sful con	npletion of courses in the diesel technology curriculum.
DIVIS	213	Subtotal	47			-
		Subtotal	77			Associate in Applied Science
		Total	66-71			noociate in rippinoa colonico
		Certificates				Diesel Technology - 4706057039
		UGI [[[[UALG3				
						(Offered at ELC, HPC, OWC, SEC)
				Gene	ral Edı	(Offered at ELC, HPC, OWC, SEC)
		Basic Vascular Technology – 5109103019		Gene	ral Edu	
DMC	200	Basic Vascular Technology – 5109103019 (Offered at SKY,WKC)	2	Gene	ral Edu	ucation:
DMS	280	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC)  Basic Vascular Technology	3	Gene	ral Edu	ucation: Written Communication
DMS	280	Basic Vascular Technology – 5109103019 (Offered at SKY,WKC)	3 3	Gene	ral Edu	Ucation: Written Communication
DMS	280	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC)  Basic Vascular Technology	3 <b>3</b>	Gene	ral Edu	Ucation: Written Communication
DMS	280	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC)  Basic Vascular Technology	3 <b>3</b>	Gene	ral Edu	Written Communication
DMS	280	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC)  Basic Vascular Technology  Total  Cardiac – 5109103029	3 3	Gene	ral Edu	Ication:       3         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3
		Basic Vascular Technology — 5109103019  (Offered at SKY,WKC)  Basic Vascular Technology  Total  Cardiac — 5109103029  (Offered at JFC)	3		ral Edu nical C	Ication:       3         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15
СНЕ	140	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry	<b>3</b> 3			Ication:       3         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15
CHE DMS	140 105	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology	3 13			acation:       3         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15         ore:       Computer/Digital Literacy       3
CHE DMS DMS	140 105 145	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I	3 3 13	Tech	nical C	Ication:         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15         ore:       Computer/Digital Literacy       3         Basic Electricity for Non-Majors AND       3
CHE DMS DMS DMS	140 105 145 205	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II	3 3 13 12	Tech: BEX BEX	100 101	Ication:         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15         Ore:         Computer/Digital Literacy       3         Basic Electricity for Non-Majors AND       3         Basic Electricity Lab for Non-Majors OR       2
CHE DMS DMS DMS DMS	140 105 145 205 215	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III	3 3 13 12 6	Tech: BEX BEX ADX	100 101 120	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)
CHE DMS DMS DMS	140 105 145 205	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II	3 3 13 12 6	Tech: BEX BEX ADX ADX	100 101 120 121	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)
CHE DMS DMS DMS DMS	140 105 145 205 215	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III	3 3 13 12 6	Tech: BEX BEX ADX ADX ELT	100 101 120 121 110	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)
CHE DMS DMS DMS DMS	140 105 145 205 215	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV	3 3 12 6 6	Tech: BEX BEX ADX ADX ELT ADX	100 101 120 121 110 170	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3
CHE DMS DMS DMS DMS	140 105 145 205 215	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac — 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV Total	3 3 12 6 6	Tech: BEX BEX ADX ADX ELT ADX ADX	100 101 120 121 110 170	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1
CHE DMS DMS DMS DMS	140 105 145 205 215	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV Total  General -5109103039	3 3 12 6 6	Tech: BEX BEX ADX ADX ELT ADX ADX DIT	100 101 120 121 110 170 171 103	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2
CHE DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC)	3 3 13 6 6 6	Tech: BEX BEX ADX ADX ELT ADX ADX DIT DIT	100 101 120 121 110 170 171 103 110	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3
CHE DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography	3 3 13 6 6 6	Tech: BEX BEX ADX ADX ELT ADX ADX DIT DIT	100 101 120 121 110 170 171 103 110	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2
CHE DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac — 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography	3 3 12 6 6 46	Tech: BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX	100 101 120 121 110 170 171 103 110 111 150	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2         Engine Repair AND       .(3)
CHE DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation	33136666	Tech: BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX ADX	100 101 120 121 110 170 171 103 110 111 150 151	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .3         Basic Automotive Electricity Lab OR       .2         Circuits I       .5         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2         Engine Repair AND       .3         Engine Repair Lab       .2
CHE DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology — 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac — 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography	33136666	Tech: BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX ADX DIT	100 101 120 121 110 170 171 103 110 111 150 151	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2         Engine Repair AND       .(3)         Engine Repair Lab       .(2)         Diesel Engine Repair       .3
CHE DMS DMS DMS DMS DMS DMS DMS	140 105 145 205 215 245	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation	3313666666	BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX DIT DIT ADX ADX DIT DIT	100 101 120 121 110 170 171 103 110 111 150 151 112	Ication:           Written Communication         .3           Quantitative Reasoning         .3           Natural Sciences         .3           Social/Behavioral Sciences         .3           Heritage/Humanities         .3           Subtotal         .15           Ore:           Computer/Digital Literacy         .3           Basic Electricity for Non-Majors AND         .3           Basic Electricity Lab for Non-Majors OR         .2           Basic Automotive Electricity AND         .(3)           Basic Automotive Electricity Lab OR         .(2)           Circuits I         .(5)           Climate Control         .3           Climate Control Lab         .1           Preventive Maintenance Lab         .2           Introduction to Diesel Engines AND         .3           Introduction to Diesel Engines Lab OR         .2           Engine Repair AND         .(3)           Engine Repair Lab         .(2)           Diesel Engine Repair         .3           Diesel Engine Repair         .3
CHE DMS	140 105 145 205 215 245	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography III Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation Online Physics Review	331366666	BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX DIT DIT ADX ADX DIT DIT	100 101 120 121 110 170 171 103 110 111 150 151 112 113 140	Ication:           Written Communication         .3           Quantitative Reasoning         .3           Natural Sciences         .3           Social/Behavioral Sciences         .3           Heritage/Humanities         .3           Subtotal         .15           Ore:           Computer/Digital Literacy         .3           Basic Electricity for Non-Majors AND         .3           Basic Electricity Lab for Non-Majors OR         .2           Basic Automotive Electricity AND         .(3)           Basic Automotive Electricity Lab OR         .(2)           Circuits I         .(5)           Climate Control         .3           Climate Control Lab         .1           Preventive Maintenance Lab         .2           Introduction to Diesel Engines AND         .3           Introduction to Diesel Engines Lab OR         .2           Engine Repair AND         .(3)           Engine Repair Lab         .(2)           Diesel Engine Repair         .3           Diesel Engine Repair Lab         .2           Hydraulics AND         .3
CHE DMS	140 105 145 205 215 245 111 116 121 199 201 202	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation. Online Physics Review Online Abdomen Review Online OB/GYN Review	331366666	BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX DIT DIT ADX ADX DIT DIT DIT	100 101 120 121 110 170 171 103 110 111 150 151 112 113 140	Ication:         Written Communication       3         Quantitative Reasoning       3         Natural Sciences       3         Social/Behavioral Sciences       3         Heritage/Humanities       3         Subtotal       15         Ore:         Computer/Digital Literacy       3         Basic Electricity for Non-Majors AND       3         Basic Electricity Lab for Non-Majors OR       2         Basic Automotive Electricity AND       (3)         Basic Automotive Electricity Lab OR       (2)         Circuits I       (5)         Climate Control       3         Climate Control Lab       1         Preventive Maintenance Lab       2         Introduction to Diesel Engines AND       3         Introduction to Diesel Engines Lab OR       2         Engine Repair AND       (3)         Engine Repair Lab       (2)         Diesel Engine Repair Lab       2         Hydraulics AND       3         Hydraulics Lab OR       2
CHE DMS	140 105 145 205 215 245 111 116 121 199 201 202 cal of 17	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation Online Physics Review Online Abdomen Review Online OB/GYN Review 7 credit hours must be completed from the	331366 46 466666	BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX DIT DIT T DIT DIT DIT T T DIT T T T T T	100 101 120 121 110 170 171 103 110 111 150 151 112 113 140 141 100	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .(3)         Basic Automotive Electricity Lab OR       .(2)         Circuits I       .(5)         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2         Engine Repair AND       .(3)         Engine Repair Repair       .3         Diesel Engine Repair Lab       .2         Updraulics AND       .3         Hydraulics Lab OR       .2         Fluid Power AND       .(3)
CHE DMS	140 105 145 205 215 245 111 116 121 199 201 202 cal of 17	Basic Vascular Technology – 5109103019  (Offered at SKY,WKC) Basic Vascular Technology  Total  Cardiac – 5109103029  (Offered at JFC) Introductory General Chemistry Introduction to Cardiology Cardiac Sonography I Cardiac Sonography II Cardiac Sonography III Cardiac Sonography IV  Total  General -5109103039  (Offered at JFC) Abdominal Sonography OB/GYN Sonography Sonography Physics and Instrumentation. Online Physics Review Online Abdomen Review Online OB/GYN Review	331366666611	BEX BEX ADX ADX ELT ADX ADX DIT DIT ADX ADX DIT DIT ADX ADX DIT DIT DIT	100 101 120 121 110 170 171 103 110 111 150 151 112 113 140	Ication:         Written Communication       .3         Quantitative Reasoning       .3         Natural Sciences       .3         Social/Behavioral Sciences       .3         Heritage/Humanities       .3         Subtotal       .15         Ore:         Computer/Digital Literacy       .3         Basic Electricity for Non-Majors AND       .3         Basic Electricity Lab for Non-Majors OR       .2         Basic Automotive Electricity AND       .3         Basic Automotive Electricity Lab OR       .2         Circuits I       .5         Climate Control       .3         Climate Control Lab       .1         Preventive Maintenance Lab       .2         Introduction to Diesel Engines AND       .3         Introduction to Diesel Engines Lab OR       .2         Engine Repair AND       .3         Engine Repair Lab       .2         Diesel Engine Repair Lab       .2         Diesel Engine Repair Lab       .2         Hydraulics AND       .3         Hydraulics Lab OR       .2

ADX   260   Electrical Systems AND   (3)   (4)   (5)   (5)   (5)   (5)   (5)   (6)   (7)	DIT DIT DIT	151 190 191	Power Trains Lab	DIT	299	Cooperative Education II	. 2
No.   Computer			Electrical Systems Lab(2)			Diplomas	
Agriculture Disease   Technician   Track - 470605701   Agriculture Disease   Technician   Track - 470605701   Agriculture Disease   Technician   Track - 470605701   Agriculture Disease   Technician   Track - 470605702   Agriculture Disease   Technician   Track - 470605702   Agriculture Disease   Technician   Track - 470605702   Agriculture Disease   Technician   Track - 470605703   Agricultu			Digital Literacy must be demonstrated either by competency exam or			-	
Name		_		Gene	ral Edu	ıcation	
Part   152   Powertrain for Construction Equipment   4.1   2.2   1.2   2.2		_		Area 1	=	Written Communication, Oral Communications, or	
Part   152   Powertrain for Construction Equipment   4.1   2.2   1.2   2.2		Ag	riculture Diesel Technician Track - 470605701				. 3
DIT   512   Powertran for Construction Equipment   3   Subtool   6		•		Area 2	=		
	DIT	152	8				. 3
MT   100   Welding for Maintenance AND	DIT	153	Powertrain for Construction Equipment Lab			Subtotal	6
MIT   101   Wokling for Maintenance Lab OR.				Tech	nical C	Olleges	
MID   120   Sala-lade Metal Arc Welding (SMAW) AND.   3   5   5   5   5   5   5   5   5   5				iccii	ilicai C		
WILD   121   Shelded Metal Arc Welding (SM/W) Lab.   2,0   ADX   170   Climate Control Lab.   1   1   1   1   1   1   1   1   1							-3
Subtoal   Subt				ADX	170		
Part	WED	121		ADX	171	Climate Control Lab	. 1
Construction Equipment Technician Track - 470605702					100		
Construction Equipment Technician Track - 470605702   ADX   12   Basic Automote Electricity Lab OR   (2)			Total 62-64				
Control   Cont							
Comment		Const	ruction Equipment Technician Track - 470605702				
DTI         121         Introduction to Mainteanace Welding Lab OR         3         DTI         110         Introduction to Diesel Engines AND         3           MT         101         Welding for Mainteanace Lab OR         (2)         ADX         150         Engine Repair AND         (3)           WLD         120         Shielded Metal Arc Welding (SMAW) AND         (3)         ADX         151         Engine Repair AND         (3)           DIT         123         Undercarrage Lab         (2)         DTI         112         Diesel Engine Repair         (3)           DIT         130         Powertrain for Construction Equipment         (3)         DTI         131         Diesel Engine Repair         (3)           DIT         131         Drovertrain for Construction Equipment         (3)         DTI         121         Introduction to Mainteanace AND         (3)           SUBTOTAL         131         Powertrain for Construction Equipment Lab         (2)         DTI         140         Welding for Mainteanace AND         (3)           SUBTOTAL         140         Beautral Arc Welding (SMAW) AND         (3)         MUD         120         Shaleded Metal Arc Welding (SMAW) AND         (3)           SUBTOTAL         180         Bracks         191         H			• •				
MT   100	DIT	121	$\omega$				
Instrict   Orange   Company   Comp	IMT	100				e	
WILD   120   Shieledde Metal Are: Welding (SMAW) JAND.   3)   ADX   151   Engine Repair Lab.   (.2)	IMT	101	Welding for Maintenance Lab OR(2)	ADX	150		
DIT				ADX	151		
DIT   152   Powertrain for Construction Equipment   3   DIT   121   Introduction to Maintenance Wolding Lab OR   3							
DT							
Note   Fig.   Foot						· ·	
Total	DII	133					
Medium and Heavy Truck Technician Track - 470605703							
Medium and Heavy Truck Technician Track - 470605703			lotal 65-6/				
FPX   100   Fluid Power AND				DIT	140	Hydraulics AND	. 3
DIT   180		Mediu	m and Heavy Truck Technician Track - 470605703				
DIT   181   Brakes Lab   2   DIT   150   Power Trains   3     DIT   160   Steering and Suspension   2   DIT   151   Power Trains Lab   2     DIT   161   Steering and Suspension Lab   2   DIT   151   Power Train for Construction Equipment   3     Subtotal   10   DIT   153   Powertrain for Construction Equipment Lab   2     DIT   150   DIT   153   Powertrain for Construction Equipment Lab   2     DIT   190   Electrical Systems for Diesel Equipment AND   3     DIT   180   Steering and Suspension Lab   2     DIT   181   Steering and Suspension   3     DIT   181   Steering and Suspension							
DIT   160   Steering and Suspension   3   DIT   151   Power Trains Lab   2   2   2   2   2   2   2   3   3   Power Trains for Construction Equipment   3   3   2   2   2   3   3   Power Trains for Construction Equipment   3   3   2   3   2   3   3   Power Trains for Construction Equipment   3   3   3   2   3   3   3   2   3   3							
Subtotal   161   Steering and Suspension Lab.   2   DIT   152   Powertrain for Construction Equipment Lab.   2   DIT   153   Powertrain for Construction Equipment Lab.   2   DIT   190   Electrical Systems for Diesel Equipment Lab OR   3   ADX   260   Electrical Systems for Diesel Equipment Lab OR   3   ADX   260   Electrical Systems AND   3   3   ADX   170   ADX   260   Electrical Systems AND   3   ADX   261   Electrical Systems AND   3   3   ADX   170   ADX   261   Electrical Systems AND   3   ADX   261   Electrical Systems AND   3   ADX   44-49   ADX   261   Electrical Systems AND   3   ADX   44-49   ADX   261   Electrical Systems AND   3   ADX   44-49   ADX   261   Electrical Systems Lab   3   ADX   44-49   ADX   261   Electrical Systems AND   3   ADX   44-49   ADX							
Note   Subtotal   10							
Total	DII	101		DIT	153		
ADX   260   Electrical Systems AND				DIT	190		
ADX   261   Electrical Systems Lab			Total 64				
Approval required   Subtotal   44-49	Paga	mmond	ad Taghnical Electives (Program Coordinator				
DÎT         180         Brakes         3         Total         50-55           DIT         181         Brakes Lab         2         Total         50-55           DIT         160         Steering and Suspension         3           DIT         161         Steering and Suspension Lab         2         Construction Equipment Technician - 4706054019           DIT         121         Introduction to Maintenance Welding Lab OR         3         (Offered at ASC, BSC, HZC, MYC, OWC, SEC,WKC)           IMT         101         Welding for Maintenance Lab OR         (2)         General Education           WLD         120         Shielded Metal Arc Welding (SMAW) AND         (3)         Area 1 =         Written Communication, Oral Communications, or           WLD         121         Shielded Metal Arc Welding (SMAW) Lab         (2)         Humanities/Heritage         3           DIT         123         Undercarriage Lab         3         Area 2 =         Social/Behavioral Sciences, Natural Sciences or           DIT         152         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         Computer/Digital Literacy course OR           DIT			, ·	ADA	201		
DIT   181   Brakes Lab						Subtour	'
DIT 161 Steering and Suspension Lab						Total 50-	55
DIT 121 Introduction to Maintenance Welding Lab OR 3  IMT 100 Welding for Maintenance AND (3)  IMT 101 Welding for Maintenance Lab OR (2)  WLD 120 Shielded Metal Arc Welding (SMAW) AND (3)  DIT 123 Undercarriage Lab 3 Area 2 = Social/Behavioral Sciences, Natural Sciences or  DIT 152 Powertrain for Construction Equipment 3 Quantitative Reasoning 3  DIT 153 Powertrain for Construction Equipment Lab 2 Subtotal 6  PMX 100 Precision Measurement (3)  DIT 193 Special Problems I 1  DIT 195 Special Problems II 2 Computer/Digital Literacy course OR  DIT 197 Special Problems III 3 ADX 170 Climate Control Lab 1  DIT 198 Practicum II 2 BEX 100 Basic Electricity for Non-Majors AND 3	DIT	160	Steering and Suspension				
IMT 100 Welding for Maintenance Welding Lab OR	DIT	161	Steering and Suspension Lab		Co	onstruction Equipment Technician - 4706054019	
IMT 101 Welding for Maintenance AND (2)  IMT 101 Welding for Maintenance Lab OR (2)  WLD 120 Shielded Metal Arc Welding (SMAW) AND (3)  WLD 121 Shielded Metal Arc Welding (SMAW) Lab (2)  DIT 123 Undercarriage Lab (3)  DIT 152 Powertrain for Construction Equipment (3)  DIT 153 Powertrain for Construction Equipment Lab (2)  DIT 105 Mechanical Concepts OR (3)  PMX 100 Precision Measurement (3)  DIT 193 Special Problems I (3)  DIT 195 Special Problems II (2)  DIT 197 Special Problems III (3)  DIT 198 Practicum (3)  Practicum II (4)  DIT 298 Practicum II (2)  Beneral Education  General Education  Further Communication, Oral Communications, or  Humanities/Heritage (3)  Area 1 = Written Communication  General Education  Further Communication, Oral Communications, or  Humanities/Heritage (3)  Area 1 = Written Communication  Area 1 = Written Communication  Area 1 = Writen Communication  General Education  Further Communication  Area 1 = Written Communication  Area 1 = Writen Communication  Further Communication  Area 1 = Writen Communication  Area 1 = Writen Communication  Area 1 = Writen Communication  Further Communication  Area 1 = Writen Communication  Area 1 = Writen Communication  Further Communication  Area 1 = Writen Communication  Area 1 = Writen Communication  Further Communication  Area 2 = Social/Behavioral Sciences, Natural Sciences  Guardian Area 1 = Writen Communication  Further Communication  Area 2 = Social/Behavioral Sciences, Natur							
WLD         120         Shielded Metal Arc Welding (SMAW) AND         (3)         Area 1 =         Written Communication, Oral Communications, or           WLD         121         Shielded Metal Arc Welding (SMAW) Lab         (2)         Humanities/Heritage         3           DIT         123         Undercarriage Lab         3         Area 2 =         Social/Behavioral Sciences, Natural Sciences or           DIT         152         Powertrain for Construction Equipment         3         Quantitative Reasoning         3           DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         105         Mechanical Concepts OR         1           PMX         100         Precision Measurement         (3)         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR           DIT         195         Special Problems III         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1 <td></td> <td></td> <td></td> <td>Gene</td> <td></td> <td><del></del></td> <td></td>				Gene		<del></del>	
WLD         121         Shielded Metal Arc Welding (SMAW) Lab.         (2)         Humanities/Heritage         3           DIT         123         Undercarriage Lab.         3         Area 2 =         Social/Behavioral Sciences, Natural Sciences or           DIT         152         Powertrain for Construction Equipment         3         Quantitative Reasoning         3           DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         105         Mechanical Concepts OR         1           PMX         100         Precision Measurement         (3)         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR           DIT         195         Special Problems III         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
DIT         123         Undercarriage Lab.         3         Area 2 =         Social/Behavioral Sciences, Natural Sciences or           DIT         152         Powertrain for Construction Equipment         3         Quantitative Reasoning         .3           DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         105         Mechanical Concepts OR         1         1         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR         0           DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3							. 3
DIT         152         Powertrain for Construction Equipment         3         Quantitative Reasoning         3           DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         105         Mechanical Concepts OR         1         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR         0-3           DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3				Area 2	=		
DIT         153         Powertrain for Construction Equipment Lab         2         Subtotal         6           DIT         105         Mechanical Concepts OR         1           PMX         100         Precision Measurement         (3)         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR           DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3	DIT	152				Quantitative Reasoning	. 3
PMX         100         Precision Measurement         (3)         Technical Courses           DIT         193         Special Problems I         1         Computer/Digital Literacy course OR           DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3	DIT	153				Subtotal	6
DIT         193         Special Problems I         1         Computer/Digital Literacy course OR           DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II         2         BEX         100         Basic Electricity for Non-Majors AND         3				т. 1	.:1.0		
DIT         195         Special Problems II         2         demonstrated competency         0-3           DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II.         2         BEX         100         Basic Electricity for Non-Majors AND         3				iechi	nicai C		
DIT         197         Special Problems III         3         ADX         170         Climate Control         3           DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II.         2         BEX         100         Basic Electricity for Non-Majors AND         3           3         ADX         171         Climate Control Lab         1							1_3
DIT         198         Practicum         1         ADX         171         Climate Control Lab         1           DIT         298         Practicum II.         2         BEX         100         Basic Electricity for Non-Majors AND         3				ADX	170		
DIT 298 Practicum II. 2 BEX 100 Basic Electricity for Non-Majors AND							
DIT 199 Cooperative Education					100	Basic Electricity for Non-Majors AND	. 3
	DIT	199	Cooperative Education	BEX	101	Basic Electricity Lab for Non-Majors OR	. 2

ADX		Basic Automotive Electricity AND	(3)	DIT	191	Electrical Systems for Diesel Equipment Lab OR	
	121	Basic Automotive Electricity Lab OR	(2)	ADX	260	Electrical Systems AND	(3)
ELT	110	Circuits I	(5)	ADX	261	Electrical Systems Lab	(2)
DIT	103	Preventive Maintenance Lab				Subtotal	46-49
DIT	110	Introduction to Diesel Engines AND					
DIT	111	Introduction to Diesel Engines Lab OR				Total	52-55
ADX	150	Engine Repair AND					
		Engine Repair AND	(2)	Reco	mmen	ded Technical Electives (Program Coordinat	or
ADX	151	Engine Repair Lab				equired)	
DIT	112	Diesel Engine Repair		DIT	180	Brakes	3
DIT	113	Diesel Engine Repair Lab	2	DIT	181	Brakes Lab	
DIT	150	Power Trains					
DIT	151	Power Trains Lab		DIT	160	Steering and Suspension	
DIT	152	Powertrain for Construction Equipment	3	DIT	161	Steering and Suspension Lab	
DIT	153	Powertrain for Construction Equipment Lab	2	DIT	121	Introduction to Maintenance Welding Lab OR	
DIT	121	Introduction to Maintenance Welding Lab OR		IMT	100	Welding for Maintenance AND	
IMT	100	Welding for Maintenance AND		IMT	101	Welding for Maintenance Lab OR	(2)
IMT	101	Welding for Maintenance Lab OR		WLD	120	Shielded Metal Arc Welding (SMAW) AND	(3)
WLD	120	Shielded Metal Arc Welding (SMAW) AND		WLD	121	Shielded Metal Arc Welding (SMAW) Lab	(2)
	121			DIT	123	Undercarriage Lab	
WLD		Shielded Metal Arc Welding (SMAW) Lab		DIT	152	Powertrain for Construction Equipment	
DIT	123	Undercarriage Lab		DIT	153	Powertrain for Construction Equipment Lab	
DIT	140	Hydraulics AND		DIT	105		
DIT	141	Hydraulics Lab OR				Mechanical Concepts OR	
FPX	100	Fluid Power AND	(3)	PMX	100	Precision Measurement	
FPX	101	Fluid Power Lab	(2)	DIT	193	Special Problems I	
DIT	190	Electrical Systems for Diesel Equipment AND	3	DIT	195	Special Problems II	
DIT	191	Electrical Systems for Diesel Equipment Lab OR		DIT	197	Special Problems III	3
ADX	260	Electrical Systems AND		DIT	198	Practicum	1
ADX	261	Electrical Systems Lab		DIT	298	Practicum II	2
ПОЛ	201	Subtotal	47-52	DIT	199	Cooperative Education	1
		Subtotal	47-32	DIT	299	Cooperative Education II	
		Total	53-58			(Or other courses as approved by the Program Coord	linator
						that will prepare the student for entry into the workfo	
Gene	ral Edu						
		ecation Written Communication, Oral Communications.				iculture Equipment Mechanic Helper - 4706053109	
Area 1		Written Communication, Oral Communications,	3	ADV	(0	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC,WKC)	2
Area 1	=	Written Communication, Oral Communications, or Humanities/Heritage	3	ADX	( <i>Q</i>	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC) Engine Repair AND	
	=	Written Communication, Oral Communications, or Humanities/Heritage		ADX	( <i>Q</i> 150 151	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC,WKC) Engine Repair AND Engine Repair Lab OR	2
Area 1	=	Written Communication, Oral Communications, or Humanities/Heritage	3	ADX DIT	150 151 110	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC,WKC)  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND	2
Area 1	=	Written Communication, Oral Communications, or Humanities/Heritage		ADX DIT DIT	150 151 110 111	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC,WKC) Engine Repair AND Engine Repair Lab OR Introduction to Diesel Engines AND Introduction to Diesel Engines Lab	2 (3) (2)
Area 1 Area 2	=	Written Communication, Oral Communications, or Humanities/Heritage	3	ADX DIT DIT ADX	150 151 110 111 260	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND	(3) (2) 3
Area 1 Area 2	=	Written Communication, Oral Communications, or Humanities/Heritage	3	ADX DIT DIT ADX ADX	150 151 110 111 260 261	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND	2 (3) (2) 3
Area 1 Area 2	=	Written Communication, Oral Communications, or Humanities/Heritage	3 6	ADX DIT DIT ADX	150 151 110 111 260	### ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND	2 (3) (2) 3 2
Area 1 Area 2 <b>Techi</b>	= = nical Co	Written Communication, Oral Communications, or Humanities/Heritage	3 <b>6</b>	ADX DIT DIT ADX ADX	150 151 110 111 260 261	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND	2 (3) (2) 3 2
Area 1 Area 2	= = nical Co	Written Communication, Oral Communications, or Humanities/Heritage	3 <b>6</b>	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190	### ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND	2 (3) 3 2 (3)
Area 1 Area 2 <b>Techi</b>	= = nical Co	Written Communication, Oral Communications, or Humanities/Heritage	0-3	ADX DIT DIT ADX ADX DIT DIT	150 151 110 111 260 261 190 191	### Figure 1  ## Figure 1  ## Figure 2  ## Figure 3  ## Figure 3  ## Figure 3  ## Figure 4  ## F	2 (3) 2 (3) (3) (2)
Area 1 Area 2 <b>Techi</b> ADX	= = nical Co	Written Communication, Oral Communications, or Humanities/Heritage	3 <b>6</b> 0-3 3 1	ADX DIT DIT ADX ADX DIT DIT	150 151 110 111 260 261 190 191 112	### Figure 1 ### Figure 1 ### Figure 2 ### Figure 3 ### F	
Area 1 Area 2 Techi ADX ADX	= = nical Co	Written Communication, Oral Communications, or Humanities/Heritage	0-3 3 1 3	ADX DIT DIT ADX ADX DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113	### Figure 1 ### Figure 1 ### Figure 2 ### Figure 3 ### F	
Area 1 Area 2 Techi ADX ADX BEX	= = = = = = = = = = = = = = = = = = =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-33132	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152	### Figure 1.00 ### Figure 1.0	
Area 1 Area 2 Techi ADX ADX BEX BEX ADX	= =	Written Communication, Oral Communications, or Humanities/Heritage		ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152	### Figure 1 ### Figure 1 ### Figure 2 ### Figure 3 ### F	
Area 1 Area 2 Techi ADX ADX BEX BEX ADX ADX ADX	= = 170 171 100 101 120	Written Communication, Oral Communications, or Humanities/Heritage	3 60-313132(3)	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND  Engine Repair Lab OR.  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab.  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab.  Total	
Area 1 Area 2 Techi ADX ADX BEX BEX ADX ADX ADX ELT	= = 170 171 100 101 120 121 110	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153	ffered at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND  Engine Repair Lab OR.  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab.  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab.  Total	
Area 1 Area 2 Techi ADX ADX BEX BEX ADX ADX ADX ELT DIT	= 170 171 100 101 120 121 110 103	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153	### Figure 1.0 ### Fi	
Area 1 Area 2 Techi  ADX ADX BEX BEX ADX ADX ADX ELT DIT DIT	= = 170 171 100 101 120 121 110 103 110	Written Communication, Oral Communications, or Humanities/Heritage	3 60-31313(3)(2)(5)23	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153	### Figure 1 ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab  Total  **Struction Equipment Mechanic Helper - 4706053019**  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)	2
Area 1 Area 2 Techi ADX ADX BEX BEX ADX ADX ELT DIT DIT DIT	= = 170 171 100 101 120 121 110 103 110 111	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)232	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT DIT DIT ADIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153	### Figure 1 ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab  Total  **Struction Equipment Mechanic Helper - 4706053019**  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair AND	2
Area 1 Area 2 Techi  ADX ADX BEX BEX ADX ADX ELT DIT DIT DIT ADX	= = 170 171 100 101 120 121 110 103 110 111 150	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)232(3)	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT DIT DIT ADX ADX ADX	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	### Figure 1.2 ### Figure 2.2 ### Figure 3.2 ### Fi	2
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ADX ELT DIT DIT DIT ADX ADX ADX	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)232(3)	ADX DIT DIT ADX ADX DIT DIT DIT DIT DIT DIT DIT DIT DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	### Figure 1.2 ### Figure 2.2 ### Figure 3.2 ### Fi	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT DIT ADX	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)232(3)(2)3	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	### Figure 1.2 ### Figure 2.2 ### Figure 3.2 ### Fi	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT DIT ADX ADX ADX DIT DIT ADX ADX DIT DIT	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)(5)2(3)(2)32	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	### Figure 1.0 ### Figure 2.0 ### Figure 3.0 ### Fi	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT DIT ADX ADX DIT	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3313(3)(5)(5)	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	### Figure 1 ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab  Total  **Struction Equipment Mechanic Helper - 4706053019*  **(Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)*  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems AND  Electrical Systems Lab OR	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-33132(3)(2)(5)2(3)(2)323232	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190	### Figure 1.0 ### Figure 2.0 ### Figure 3.0 ### Fi	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT DIT ADX ADX DIT	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3313(3)(5)(2)(3)(2)(3)(2)(3)(2)(3)	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b>	Engine Repair Lab OR  Introduction to Diesel Engines AND  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems AND  Electrical Systems AND  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems For Diesel Equipment AND  Electrical Systems For Diesel Equipment Lab	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT	= =   170	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3313(3)(5)(2)(3)(2)(3)(2)(3)(2)(3)	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190	Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment Lab.  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair AND.  Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Introduction to Diesel Engines Lab.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems Lab OR.  Electrical Systems AND.  Electrical Systems For Diesel Equipment AND.  Electrical Systems Lab OR.  Electrical Systems For Diesel Equipment Lab.  Diesel Engine Repair.	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT	=	Written Communication, Oral Communications, or Humanities/Heritage	3 60-333	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190	Engine Repair Lab OR  Introduction to Diesel Engines AND  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems AND  Electrical Systems AND  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems For Diesel Equipment AND  Electrical Systems For Diesel Equipment Lab	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT DIT DIT FPX FPX FPX	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3313(3)(5)(5)(2)(3)(2)3(2)3(2)3(2)3	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190 191 112	Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment Lab.  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair AND.  Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Introduction to Diesel Engines Lab.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems Lab OR.  Electrical Systems AND.  Electrical Systems For Diesel Equipment AND.  Electrical Systems Lab OR.  Electrical Systems For Diesel Equipment Lab.  Diesel Engine Repair.	
Area 1 Area 2 Techi  ADX ADX BEX ADX ADX ELT DIT DIT ADX ADX ADX DIT DIT DIT FPX FPX DIT	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(5)2(3)(2)32(3)3	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190 191 111 260 261 191 111 260 261 191 112 113	Figure at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND  Engine Repair Lab OR.  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems For Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment	
Area 1 Area 2 Techi  ADX ADX BEX BEX ADX ADX CIT DIT DIT ADX ADX DIT	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(2)3232(3)232323232323232	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190 191 112 113 152	Engine Repair Lab OR.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair Lab OR.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab.  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Introduction to Diesel Engines Lab.  Electrical Systems for Diesel Engine Repair AND.  Engine Repair Lab OR.  Introduction to Diesel Engines Lab.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems Lab OR.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab  Powertrain for Construction Equipment Lab.  Powertrain for Construction Equipment Lab.	
Area 1 Area 2 Techi  ADX ADX BEX ADX BEX ADX COLUMN ADX	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-33132(3)(5)(2)32(3)(2)323232323232	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 Cons 150 151 110 111 260 261 190 191 112 113 152 153	Figure at ASC, BSC, HPC, MYC, OWC, SEC, SMC, WKC)  Engine Repair AND  Engine Repair Lab OR.  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems for Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair AND  Engine Repair Lab OR  Introduction to Diesel Engines AND  Introduction to Diesel Engines Lab  Electrical Systems AND  Electrical Systems AND  Electrical Systems Lab OR  Electrical Systems For Diesel Equipment AND  Electrical Systems for Diesel Equipment Lab  Diesel Engine Repair  Diesel Engine Repair  Diesel Engine Repair Lab  Powertrain for Construction Equipment	
Area 1 Area 2 Techi  ADX ADX BEX ADX BEX ADX COLUMN ADX	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-3132(3)(5)2(3)(2)3232323232323232	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190 191 112 113 152 153	Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment Lab.  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Introduction to Diesel Engines Lab.  Electrical Systems for Diesel Engine Repair AND.  Engine Repair Lab OR.  Introduction to Diesel Engines Lab.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems Lab OR.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab.  Undercarriage Lab.	
Area 1 Area 2 Techi  ADX ADX BEX ADX BEX ADX COLUMN ADX	= =	Written Communication, Oral Communications, or Humanities/Heritage	3 60-33132(3)(5)(2)323232323232323232	ADX DIT DIT ADX ADX DIT	150 151 110 111 260 261 190 191 112 113 152 153 <b>Cons</b> 150 151 110 111 260 261 190 191 112 113 152 153	Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment Lab.  Total  Struction Equipment Mechanic Helper - 4706053019  (Offered at ASC, BSC, HZC, MYC, OWC, SEC, WKC)  Engine Repair Lab OR.  Introduction to Diesel Engines AND.  Introduction to Diesel Engines Lab.  Electrical Systems for Diesel Engine Repair AND.  Engine Repair Lab OR.  Introduction to Diesel Engines Lab.  Electrical Systems AND.  Electrical Systems AND.  Electrical Systems for Diesel Equipment AND.  Electrical Systems Lab OR.  Electrical Systems for Diesel Equipment AND.  Electrical Systems for Diesel Equipment Lab.  Diesel Engine Repair.  Diesel Engine Repair Lab.  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment  Powertrain for Construction Equipment Lab.  Undercarriage Lab.	

		Diesel Engine Mechanic - 4706053079			Heavy Duty Drive Train Mechanic - 4706053089
(Of	fered at A	ASC, BSC, ELC, GTW, HZC, HPC, MYC, OWC, SEC, SMC,WKC)		(Offer	red at ASC, BSC, ELC, HZC, MYC, OWC, SEC, SMC,WKC)
DIT	110	Introduction to Diesel Engines AND	DIT	150	Power Trains
DIT	111	Introduction to Diesel Engines Lab OR	DIT	151	Power Trains Lab. 2
ADX	150	Engine Repair AND(3)			Electives (Diesel Courses/Industrial Education Core)7
ADX	151	Engine Repair Lab(2)			Total 12
DIT	112	Diesel Engine Repair			
DIT	113	Diesel Engine Repair Lab			
		Electives (Diesel Courses/Industrial Education Core)2		Medi	um and Heavy Truck Mechanic Helper - 4706053149
		Total 12		(Offer	red at ASC, BSC, ELC, HZC, MYC, OWC, SEC, SMC,WKC)
			ADX	120	Basic Automotive Electricity AND
		Discal Manhauise Assistant 4700000100	ADX	121	Basic Automotive Electricity Lab OR
		Diesel Mechanics Assistant - 4706053189	BEX	100	Basic Electricity for Non-Majors AND(3)
	(Of	fered at BSC, ELC, HZC, MYC, OWC, SEC, SMC,WKC)	BEX	101	Basic Electricity Lab for Non-Majors OR(2)
DIT	103	Preventive Maintenance Lab	ELT	110	Circuits I(5)
DIT	110	Introduction to Diesel Engines	ADX	150	Engine Repair AND
DIT	111	Introduction to Diesel Engines Lab	ADX	151	Engine Repair Lab OR
DIT	112	Diesel Engine Repair	DIT	110	Introduction to Diesel Engines AND(3)
DIT	113	Diesel Engine Repair Lab	DIT	111	Introduction to Diesel Engines Lab(2)
DIT	160	Steering and Suspension	ADX	260	Electrical Systems AND
DIT	161	Steering and Suspension Lab	ADX	261	Electrical Systems Lab OR
DIT	180	Brakes3	DIT	190	Electrical Systems for Diesel Equipment AND(3)
DIT	181	Brakes Lab	DIT	191	Electrical Systems for Diesel Equipment Lab(2)
DIT	190	Electrical Systems for Diesel Equipment	DIT	112	Diesel Engine Repair
DIT	191	Electrical Systems for Diesel Equipment Lab	DIT	113	Diesel Engine Repair Lab
		Total 27	DIT	160	Steering and Suspension
			DIT	161	Steering and Suspension Lab
	Nies	el Steering & Suspension Mechanic - 4706053179	DIT	180	Brakes
		ed at ASC, BSC, ELC, HZC, MYC, OWC, SEC, SMC,WKC)	DIT	181	Brakes Lab
DIT	160				Total 30
DIT	161	Steering and Suspension			
DII	101	Electives (Diesel Courses/Industrial Education Core)7			Mobile Air Conditioning Mechanic - 4706053169
		Total 12	(0		ASC, BSC, ELC, GTW, HZC, HPC, MYC, OWC, SEC, SMC,WKC)
		10411	ADX	170	Climate Control
	·		ADX	171	Climate Control Lab
	Elect	rical/Electronics Systems Mechanic - 4706053059			Electives (Diesel Courses/Industrial Education Core) 8
(Of	fered at A	ASC, BSC, ELC, GTW, HZC, HPC, MYC, OWC, SEC, SMC,WKC)			Total 12
BEX	100	Basic Electricity for Non-Majors AND			
BEX	101	Basic Electricity Lab for Non-Majors OR			Navantiva Maintananaa Maahania 47000E9100
ADX	120	Basic Automotive Electricity AND(3)			reventive Maintenance Mechanic - 4706053199
ADX	121	Basic Automotive Electricity Lab OR(2)	$(O_{j})$	ffered at	ASC, BSC, ELC, GTW, HZC, HPC, MYC, OWC, SEC, SMC,WKC)
ENGT	110	Circuits I(5)	DIT	103	Preventive Maintenance Lab
DIT	190	Electrical Systems for Diesel Equipment AND			Electives (Diesel Courses/Industrial Education Core) 11
DIT	191	Electrical Systems for Diesel Equipment Lab OR 2			Total 13
ADX	260	Electrical Systems AND(3)			
ADX	261	Electrical Systems Lab			Undercarriage Mechanic - 4706053099
		Electives (Diesel Courses/Industrial Education Core)2		(Offa	red at ASC, BSC, ELC, HZC, MYC, OWC, SEC, SMC,WKC)
		Total 12	DIT		
			DH	123	Undercarriage Lab
		Fluid Power Mechanic - 4706053119			Total 12
	Offered.	at ASC, BSC, ELC, HZC, HPC, MYC, OWC, SEC, SMC,WKC)			1001
FPX	100	Fluid Power OR			
DIT	140	Hydraulics(3)		Divi	tal Cama and Cimulation Docion
FPX	101	Fluid Power Lab OR		Ulgi	tal Game and Simulation Design
DIT	141	Hydraulics Lab(2)			
2		Electives (Diesel Courses/Industrial Education Core)7	Provid	des stud	ents with a thorough understanding of techniques for
		Total 12	design	ning adv	anced 3D games and simulations. Courses will cover 2D
					ics, animation, character development, texturing, rigging,
		Hanni Butu Busha Mashania 4700050000			game setup using state-of-the-art software development
		Heavy Duty Brake Mechanic - 4706053039	tools.	_	0 1 0
	(Offered	at ASC, BSC, ELC, HZC, HPC, MYC, OWC, SEC, SMC,WKC)	-50101		
DIT	180	Brakes	Comr	oleting s	tudents will have developed the skills necessary to create
DIT	181	Brakes Lab			3D graphics and a simple application that can be used for
		Electives (Diesel Courses/Industrial Education Core)7			nulations.
		Total 12	8		

### Certificate

## Digital Game and Simulation Design - 1108033029

(Offered at JFC, MYC) Computer/Digital Literacy......0-3 DGD 131 DGD 132 DGD 231 DGD 232 DGD 233 DGD 234 DGD 235 DGD 236 DGD 237 

# **Education**

The Associate in Applied Science Degree (AAS) in Education, Teacher Preparation, is a track for students who wish to begin coursework at a community and technical college and then apply for transfer admission to a teacher education program at a four-year college or university. The Paraeducator Certificate program is designed to prepare students to successfully complete the Kentucky Paraeducator Assessment or Kentucky Department of Education approved alternative assessment. Paraeducators who wish to earn a two-year degree may complete the (AAS) Teacher Associate track. Associate in Applied Science

# Associate in Applied Science

### Education - 1315017019

### Teacher Associate Track - 131501701

(Offered at BLC, ELC, GTW, HPC, JFC, OWC, SEC, SMC)

# General Education

		Subtotal	33-34
		Social/Behavioral Sciences <sup>1</sup>	6
PSY	110	General Psychology	3
		Quantitative Reasoning	3
		Natural Sciences <sup>2</sup>	6
HIS	109	History of the United States Since 1865	(3)
		OR	
HIS	108	History of the United States Through 1865	
		Humanities <sup>1</sup> or Foreign Language <sup>1</sup>	3 - 4
		Oral Communications	
ENG	102	Writing II	3
ENG	101	Writing I	

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EDP	202	Human Development and Learning
EDP	203	Teaching Exceptional Learners in Regular Classrooms 3
		Total Common 12
Tech	nical o	r Support Courses
EDU	110	Orientation to Education
EDU	120	Child and Adolescent Development

EDU	150	Practical Experiences for the Paraeducator	3
EDU	280	Education Externship/Co-op	3
		Total Teacher Associate Track	18
		Total Credit Hours	63 - 64

<sup>1</sup>At least one course must be selected from the identified Cultural Studies course list.

<sup>2</sup>Must include at least one Science course with a laboratory experience.

<sup>3</sup>Successfully passing the computer competency exam will satisfy this requirement. If the computer competency exam is successfully completed, the student must take three (3) credit hours of coursework approved by the program coordinator.

### Teacher Prep Track - 131501702

(Offered at BLC, ELC, HPC, JFC, OWC, SEC, SMC)

#### **General Education**

3 3 3 3)
3 3) 4
3) 4
4
3
3)
3
3)
3)
3)
7
3
6
5

### **Technical Core or Support Core (Common)**

		Computer/Digital Literacy	3
EDU	201	An Introduction to American Education	3
EDP	202	Human Development and Learning	3
EDP	203	Teaching Exceptional Learners in Regular Classrooms .	3
		Total Common	12

#### **Technical or Support Electives**

Technical or Support Electives	15
Total Teacher Preparation Track	15
Total Credit Hours 61-	-62

<sup>1</sup>At least one course must be selected from the identified Cultural Studies course list.

<sup>2</sup>Must include at least one Science course with a laboratory experience.

<sup>3</sup>Successfully passing the computer/digital competency exam will satisfy this requirement. If the computer competency exam is successfully completed, the student must take three (3) credit hours of coursework approved by the program coordinator.

### Certificate

### Paraeducator - 1315013019

(Offered at BLC, ELC, HPC, JFC, MYC, OWC, SEC, SMC) 110 EDU EDU 120 EDII 130 **EDU** 140 150 Computer/Digital Literacy......0-3 **Total Paraeducator Certificate** 

**EDU** 

EDII

EDU

201

130

# **Emergency Medical Services - Paramedic**

Provides a comprehensive course of study that prepares the graduate for licensure as a Paramedic (EMTP). The curriculum is structured based on the National EMS Education Standards and regulations set forth by the Kentucky Board of Emergency Medical Services (KBEMS). The three-phase curriculum is designed to provide the student with the cognitive knowledge, psychomotor skills, and affective behaviors necessary to competently perform as a Paramedic. The EMS program prepares students to function in the emergency medical profession as a Paramedic in a variety of environments. Graduates primarily provide pre-hospital emergency care to acutely ill and/or injured individuals while working on an ambulance, mobile advanced life support unit, industrial on-site unit, fire department, emergency department, and other agencies. Graduates are eligible to apply to take the National Registry Paramedic Exam. Students may earn either a Certificate or Associate in Applied Science Degree at the Paramedic level. Credit may be awarded to currently practicing paramedics towards the Associate in Applied Science Degree. Enrollment in this program is limited; therefore, a selective admissions process is followed. Students are required to hold current unrestricted certification as an EMT in Kentucky or hold current unrestricted registration with the National Registry EMT as an EMT to be eligible for paramedic program admission.

Acceptance into the EMS-Paramedic Program is based upon a selective admissions process. In order to be considered for admission, applicants must comply with college and program admission requirements. Applicants must present current, unrestricted state certification or proof of National Registry of EMT eligibility to become state certified. Licensed paramedics may receive credit towards the Associate of Applied Science in Emergency Medical Services – Paramedic. When eligible, the licensed paramedic will be awarded thirty-eight (38) semester credit hours upon the completion of: a) applying to the college of choice; b) submitting a letter of intent and a copy of the required licensure/certification document to the program coordinator with subsequent validation by the Registrar; and c) completing at least nine (9) credit hours from the degree-granting institution. Credit will be awarded as follows: 4 credit hours/EMS 200 Introduction to Paramedicine; 3 credit hours/EMS 210 Emergency Pharmacology; 3 credit hours/EMS 220 Cardiovascular Emergencies; 4 credit hours/EMS 230 Traumatic Emergencies; 3 credit hours/EMS 240 Medical Emergencies I; 3 credit hours/EMS 250 Medical Emergencies II; 3 credit hours/EMS 260 Special Populations; 1 credit hour/EMS 270 EMS Operations; 1 credit hour/EMS 275 Seminar in ALS; 5 credit hours/EMS 285 Field Internship & Summation; 2 credit hours/EMS 211 Fundamentals Lab; 1 credit hour/EMS 221 Cardiac & Trauma Lab; 1 credit hour/EMS 231 Medical Lab; 1 credit hour/EMS 215 Clinical Experience I; 1 credit hour/EMS 225 Clinical Experience II; 2 credit hours/EMS 235 Clinical Experience III. Students must meet the twenty-five percent (25%) residency requirements of the degreegranting institution.

Students select their career option preference, certificate or degree, either during advising or upon admission to the program, but may choose to change their career path while in the program without reapplying for admission to the college.

# Associate in Applied Science

### **Emergency Medical Services - Paramedic - 5109047029**

(Offered at ASC, GTW, JFC, MDC, OWC, SMC, WKC)

#### **General Education:**

ENG	101	Writing I	3
PSY	110	General Psychology	3
BIO	135	Basic Anatomy and Physiology with Laboratory*	4
		Quantitative Reasoning	
		Oral Communications	3
		Heritage or Humanities	3
AHS	115	Medical Terminology OR	3
CLA	131	Medical Terminology from Greek and Latin	(3)
		Computer/Digital Literacy	0-3
EMS	200	Introduction to Paramedicine	4
EMS	210	Emergency Pharmacology	3
EMS	211	Fundamentals Lab	2
EMS	215	Clinical Experience I	1
EMS	220	Cardiovascular Emergencies	3
EMS	221	Cardiac and Trauma Lab	1
EMS	225	Clinical Experience II	1
EMS	230	Traumatic Emergencies	4
EMS	231	Medical Lab	1
EMS	235	Clinical Experience III	2
EMS	240	Medical Emergencies I	3
EMS	250	Medical Emergencies II	3
EMS	260	Special Populations	3
EMS	270	EMS Operations	1
EMS	275	Seminar in Advanced Life Support (ALS)	1
EMS	285	Field Internship & Summation	5-6
AHS	201	Management Principles for Allied Health Providers	3
		Total Credits	63-67

\*BIO 137 & BIO 139 may be substituted for BIO 135

## Certificate

# Emergency Medical Services - Paramedic - 5109043040

	(Offere	ł at ASC, BLC, HZC, GTW, JFC, MDC, OWC, SKY, SMC,WKC)	
BIO	135	Basic Anatomy and Physiology with Laboratory* 4	H
AHS	115	Medical Terminology OR	b
CLA	131	Medical Terminology Greek/Latin(3)	)
FHM	100	Dosage Calculations OR	)
MAT	110	Applied Mathematics(3)	
EMS	200	Introduction to Paramedicine4	H
EMS	210	Emergency Pharmacology	3
EMS	211	Fundamentals Lab	,
EMS	215	Clinical Experience I	
EMS	220	Cardiovascular Emergencies	
EMS	221	Cardiac and Trauma Lab	
EMS	225	Clinical Experience II	
EMS	230	Traumatic Emergencies4	
EMS	231	Medical Lab1	
EMS	235	Clinical Experience III	,
EMS	240	Medical Emergencies I	
EMS	250	Medical Emergencies II	
EMS	260	Special Populations	
EMS	270	EMS Operations	l
EMS	275	Seminar in Advanced Life Support (ALS)	l
EMS	285	Field Internship & Summation 5-6	5
		Total Credits 47-49	)

\*BIO 137 & BIO 139 may be substituted for BIO 135

# **Energy Management**

The Energy Management (EM) degree is designed to give students the skills and national certifications required to receive employment in the rapidly growing field of energy management and positions in the energy industry. The embedded certificates include: the Center for Energy Workforce Development (CEWD) Energy Industry Fundamental Certificate, the Building Performance Institute's Building Specialist certificate, The North American Board of Certified Energy Practitioners' Entry Level Solar certification, the Leadership in Energy and Environmental Design's Green Associate certification, and the Environmental Protection Agency's Article 608 certification. The program is designed to meet the needs of non-traditional and working students by having courses absent of pre-requisites. The program has several embedded certificates that will give many exit points to employment. Graduates of the EM program will be qualified to recommend improvements to commercial and residential buildings by analyzing subsystems that contribute to higher energy usage.

Documentation of digital literacy as defined by KCTCS is required prior to enrolling in the first Energy Management course.

# Associate in Applied Science

### Energy Management -1505037039

(Offered	at	MDC)
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### **General Education**

Quantitative Reasoning	
Natural Sciences	. 3
Social/Behavioral Sciences	. 3
Heritage/Humanities	. 3
Written Communication	
Subtotal	15

### **Technical Core**

ENM	101	Energy Industry Fundamentals
ENM	111	Sustainability Management OR
		One Study Abroad/Overseas Experience course (HRS 200,(3)
		IES 235 Or other Study Abroad course from a non-KCTCS
		accredited higher education institution approved by the
		Energy
		Management program coordinator).
ENM	121	Solar Design and Applications
ENM	200	Commercial Energy Analysis
ENM	210	Smart Grid Applications
AIT	220	The Integrated Power Grid
ENM	230	Building Automation
EGY	240	Energy Analysis and Efficiency4
ENM	250	Regulatory and Environmental Issues
ENM	260	Air Conditioning and Refrigeration Regulations
BRX	120	Basic Blueprint Reading
BAS	160	Introduction to Business
BAS	283	Principles of Management OR
BAS	284	Applied Management Skills(3)
		Subtotal 46
		Total Credits 61

# Diploma

## Energy Management - 1505034019

### (Offered at MDC)

### **General Education**

Natural Sciences	3
Written/Oral Communications	3
Subtotal	6

#### **Technical Core**

ENM	101	Energy Industry Fundamentals9
ENM	111	Sustainability Management OR
		One Study Abroad/Overseas Experience course (HRS 200,(3)
		IES 235 Or other Study Abroad course from a non-KCTCS
		accredited higher education institution approved by the
		Energy
		Management program coordinator).

ENM	121	Solar Design and Applications
ENM	200	Commercial Energy Analysis
ENM	210	Smart Grid Applications
AIT	220	The Integrated Power Grid
ENM	230	Building Automation
EGY	240	Energy Analysis and Efficiency4
ENM	250	Regulatory and Environmental Issues

#### ENM 260 BRX 120 160 BAS BAS 283 BAS 284 Applied Management Skills .....(3)

46

52

15

## Certificates

## Fundamentals of Energy Production – 1505033089

### (Offered at MDC)

Subtotal

**Total Credits** 

**Total Credits** 

(Onc.	i cu a	a MBe)	
ENM	101	Energy Industry Fundamentals	9
		Total Credits	9

## Commercial Energy Analysis – 1505033099

One Study Abroad/Overseas Experience course (HRS 200,(3)

#### (Offered at MDC)

ENM 111

		IES 235 Or other Study Abroad course from a non-KCTCS
		accredited higher education institution approved by the
		Energy
		Management program coordinator).
ENM	200	Commercial Energy Analysis
ENM	230	Building Automation
ENM	250	Regulatory and Environmental Issues
ENM	260	Air Conditioning and Refrigeration Regulations

## Sustainable Energy - 1505033109

#### (Offered at MDC)

ENM	111	Sustainability Management OR	3
		One Study Abroad/Overseas Experience course (HRS 200,(3	3)
		IES 235 Or other Study Abroad course from a non-KCTCS	
		accredited higher education institution approved by th	e
		Energy	
		Management Program coordinator).	
ENM	121	Solar Design and Applications	3
AIT	220	The Integrated Power Grid	
ENM	210	Smart Grid Applications	
		Total Credits 1	2

# **Energy Systems**

The Energy Systems degree is designed to prepare its graduates for entry level positions across the entire range of energy technologies. The initial track will prepare students to work safely and effectively as operators in fossil-fueled electricity generating power plants. The curriculum will also provide a background in other types of energy production and distribution, including solar, wind, geothermal, and petroleum-based as well as emerging technologies such as ethanol, biodiesel, and clean coal technologies. Graduates will have an understanding of the financial, societal, and environmental impacts of the various energy production technologies, and will be able to operate and troubleshoot the machinery and systems used in energy production.

# Associate in Applied Science

## **Energy Systems - 1505037019**

		(Offered at MYC)
Gene	ral Edu	ıcation
MAT	116	Technical Mathematics
ENG	101	Writing I
PHY	151	Introductory Physics I or higher
		Heritage/Humanities
		Social/Behavioral Sciences (ECO 101 preferred)3
		Oral Communications
		Subtotal 18
Techi	nical C	ore
		Computer/Digital Literacy0-3
ESP	101	Introduction to Energy Systems
ESP	211	Power Plant Operations I
ISX	101	Introduction to Industrial Safety
ELT	102	Blueprint Reading
ESP	220	Power Plant Thermodynamics or
ELT	210	Thermodynamic Applications(3)
ENV	110	Introduction to Environmental Technology 4
ESP	110	Petroleum Based Fuels
ESP	280	Capstone in Energy Systems or
ISM	210	Fundamentals of Process Control(3)
		Subtotal 24-27
		Power Plant Operations Track - 150503701
		(Offered at MYC)
ESP	212	Power Plant Operations II
ESP	213	Power Plant Operations III
ESP	214	Power Plant Operations IV
ESP	120	Power Plant Chemistry
ESP	130	Electrical Concepts
ESP	132	Electrical Machinery and Controls
COE*	* 199	Cooperative Education
		Subtotal 21

\*\*COE 199 requirement can be met by relevant work experience approved by the program coordinator.

**Total Credits** 

## Certificate

### Power Plant Operations - 1505033019

(Offered at MYC)

Gene	eral Edu	ucation	
MAT	116	Technical Mathematics	3
PHY	151	Introductory Physics I or higher	3
		Subtotal	6

		Total Credits	32		
		Subtotal	26		
COE*	** 199	Cooperative Education	3		
ESP	130	Electrical Concepts	3		
ESP	213	Power Plant Operations III	3		
ESP	212	Power Plant Operations II	3		
ISX	101	Introduction to Industrial Safety	3		
ESP	120	Power Plant Chemistry	3		
ESP	211	Power Plant Operations I	3		
ELT	210	Thermodynamic Applications	(3)		
ESP	220	Power Plant Thermodynamics or			
ELT	102	Blueprint Reading			
Core	•				

\*\*COE 199 requirement can be met by relevant work experience approved by the program coordinator.

# **Energy Technologies**

Offers an option for students to build a career in the energy field. The degree incorporates multiple tracks for certificates associated with different energy careers, allowing students to match their strengths and interests with an appropriate plan of study. It is focused on preparing graduates to enter the workforce in positions such as an entry-level utility apprentice, line maintenance technician, transformer/relay technician, fiber optic technician, outside plant fiber optic technician, network communications technician, voice and data wiring technician, or renewable energy and energy efficiency specialist. The degree provides a broad foundation across many facets of utility and communications technologies, resulting in a multi-skilled technician valued by the workforce. Hands-on instruction is used to teach students aspects of smart grid technology, fiber optics installation, utility operation, line maintenance, underground operations, substation operations, transmission distribution, solar/photovoltaic systems installation, design and placement of wind energy systems, energy efficiency analysis, electrical energy efficiency control technologies, and job safety. The technical certificate tracks are complemented by an operations management certificate, which provides background knowledge of business operations.

# Associate in Applied Science

### Energy Technologies - 1505037029

(Offered at GTW)

**General Education** 

63-66

EGY

EGY

170

120

GCIIC	I WI LUG	icution	
ENG	101	Writing I	3
MAT	110	Applied Mathematics OR	3
		Any Higher Level Quantitative Reasoning Courses	
PHY	171	Applied Physics OR	4
		Natural Sciences	(3)
		Heritage / Humanities	3
		Oral Communications	
		Social/Behavioral Sciences	3
		Subtotal	18-19
Core			
BAS	160	Introduction to Business	3
EET	150	Transformers	2
EET	151	Transformers Lab	1
ELT	110	Circuits I	5
ETT	110	Voice and Data Installer Level I	4
ISX	101	Introduction to Industrial Safety	3

		Computer/Digital Literacy (NOTE: Computer/Digital literacy must be demonstrated either by competency exam or by successfully completing a computer/digital literacy	EGY	230	Solar / Photovoltaic Technologies Total	13
		course.)			Energy Efficiency and Analysis – 1505033079  (Offered at BSC, BTW, GTW)	
Techi	nical	Electives	ACR	170	Heat Load / Duct Design	
COE DFT	199 122	Any course listed below OR in the certificates listed below (not including courses in the technical core) OR as approved by the program coordinator	EGY	240	Energy Efficiency and Analysis	al am cy
		Total Credits 60-64	_			
		Certificate			eering and Electronics Technolog	
	Energ	y Efficiency Electrical Controls Technician – 1505033049			ering and Electronics Technology program provides cou betencies and experiences to prepare the students for su	
	J	(Offered at GTW)			of Engineering technology, electronics, computer main	
EET	154	Electrical Construction I			echanical, industrial, computer aided design, robotics an	
EET	155	Electrical Construction I Lab			, communications, instrumentation, medical equipment	
EET	250	National Electric Code4			, communications, instrumentation, medical equipment	, and
EET	252	Electrical Construction II	telepł	iony.		
EET	253	Electrical Construction II Lab	D		4h - Eiiiiiii	
ELT	110	Circuits I5			the Engineering and Electronics Technology program is	
EGY	220	Energy Efficiency Electrical Controls			n achievement of a grade of "C" or better in each techni	
		Total 21			maintenance of a 2.0 cumulative grade point average or 0 scale).	bet-
		Outside Plant Technician – 1505033039  (Offered at GTW)	ter (o	na i.c	Associate in Applied Science	
ELT	110	(Offered at GTW)  Circuits I			••	
ETT	110	Voice and Data Installer Level I		En	rgineering and Electronics Technology - 1500007019	
ISX	101	Introduction to Industrial Safety			(Offered at BLC, ELC, HPC, JFC, MYC, OWC, SKY, SMC)	
EGY	120	Outside Plant Communications				
LGI	120				ducation	
		Computer/Digital Literacy (NOTE: Computer/Digital	MAT	150	College Algebra OR	
		literacy must be demonstrated either by competency exam	MAT	126	Technical Algebra and Trigonometry	(3)
		or by successfully completing a computer/digital literacy course.)	PHY	171	Applied Physics OR	4
		Total 16-19			Other Natural Sciences with Consent	
		10-17			of Program Coordinator	
			ENG	101	Writing I	
		Energy Utility Technician – 1505033029			Social/Behavioral Sciences	
		(Offered at GTW)			Oral Communications	
EET	150	Transformers			Heritage/Humanities	
EET	151	Transformers Lab			Subtotal:	18-19
ELT	110	Circuits I				
ISX	101	Introduction to Industrial Safety	Core			_
EGY	170	Energy Utility Technologies	ELT	110	Circuits I	
		Computer/Digital Literacy (NOTE: Computer/Digital	ELT	114	Circuits II	
		literacy must be demonstrated either by competency exam	ELT	210	Devices I	
		or by successfully completing a computer/digital literacy	ELT	120	Digital I	
		course.)	CAD	100	Introduction to Computer Aided Design OR	
		Total 15-18			Equivalent Course with Consent of Program Coordinate	
			ELT.	200	Computer/Digital Literacy	
		Wind Custom Tachnologies 1505022050	ELT	289	Engineering and Electronics Technology Capstone Courses Subtotal:	24-25
FIT	110	Wind System Technologies — 1505033059 (Offered at BSC, BLC, GTW)				24-23
ELT	110	Circuits I			Electronics Track – 150000707	
IMT	150	Maintaining Industrial Equipment			(Offered at BLC, ELC, HPC, JFC, MYC, OWC, SMC)	
IMT	151	Maintaining Industrial Equipment Lab	ELT	214	Devices II	4
EGY	250	Wind / Turbine Technologies	ELT	220	Digital II	
		Total 14			Technical Electives *	13
		CalculDhatanaltala Tarkanlarian 4F0F000000			Subtotal:	20
		Solar/Photovoltaic Technologies – 1505033069			Total	62-64
		(Offered at BSC, BLC, GTW)				
EET	154	Electrical Construction I			ectives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MF	G, or
EET	155	Electrical Construction I Lab	any oth	er cours	se as approved by the program coordinator.	
ELT	110	Circuits I 5				

ELT

		Computer Maintenance Track – 150000703	CAD CAD	200 201	Intermediate Computer Aided Drafting
		(Offered at BLC, ELC, JFC, SMC)	CAD	201	Advanced 3D Modeling
ELT	234	Computer Hardware Maintenance OR			Subtotal: 23-24
IT	105	Computer Maintenance Essentials OR(3)			Subtotal. 23-24
ELT	105	Computer Maintenance Essentials(3)			Total 65-68
ELT	232	Computer Software Maintenance OR 3			
IT	205	Advanced Computer Maintenance OR(3)			ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or
ELT	205	Advanced Computer Maintenance(3)	any oth	er course	as approved by the program coordinator.
ELT	220	Digital II			Dehatics and Automation Track 150000705
NIS	160	Networking Core Technologies OR			Robotics and Automation Track – 150000705
IT	120	Cisco Internetworking I OR(4)			(Offered at BLC, HPC, JFC, MYC, SKY)
CIT	160	Data Communications and Networking(4)	ELT	118	Manufacturing III: Computer Numerical Control OR 3
		Technical Electives *	CMM	132	CAD/CAM/CNC(3)
		Subtotal: 21-22	ELT	265	Applied Fluid Power
		Total 63-66	ELT	260	Robotics and Industrial Automation
			ELT	244	Electrical Machinery and Controls OR
*Techn	ical Electi	ves: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or	EET	270	Electrical Motor Controls I AND(2)
any oth	er course	as approved by the program coordinator.	EET	271	Electrical Motor Controls I Lab(2)
			ELT	250	Programmable Logic Controllers OR
		Apprenticeship Track – 150000701	EET	276	Programmable Logic Controllers AND(2)
		(Offered at JFC)	EET	277	Programmable Logic Controllers Lab(2)
APS	201	Apprenticeship Studies			Technical Electives *
		Total 66-68			Subtotal: 24
					Total 66-68
*Techn	ical Electi	ves: Any EET, ET, ELT, IMT, CIS, NIS, IT, ISM, CAD, ICT, MFG, or any			
other co	ourse as ap	proved by the program coordinator.	*Techn	ical Elect	ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or
			any oth	er course	as approved by the program coordinator.
		Mechanical Track – 150000706			
		(Offered at JFC, OWC)			Communications Track – 150000708
ELT	122	Mechanical Power Transmission Systems AND			(Offered at BLC, ELC)
ELT	124	Mechanical Power Transmission Systems Lab OR	ELT	214	Devices II4
IMT	150	Maintaining Industrial Equipment I AND(3)	ELT	220	Digital II3
IMT	151	Maintaining Industrial Equipment I Lab(2)	ELT	240	Communications Electronics
ELT	265	Applied Fluid Power			Technical Electives *9
BRX	120	Basic Blueprint Reading			Subtotal: 22
CAD	200	Intermediate Computer Aided Drafting4			T 4 1
		Technical Electives *			Total 64-66
		Subtotal: 22-23	*Techn	ical Elect	ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or
		Total 64-67			as approved by the program coordinator.
		10tai	)		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*Techn	ical Electi	ves: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or			Instrumentation Track – 150000709
		as approved by the program coordinator.			(Offered at ELC)
			ELT	220	Digital II
		Industrial Track – 150000704	ISM	102	Fundamentals of Instrumentation
		(Offered at BLC, HPC, JFC, MYC, OWC)	ISM	210	Fundamentals of Process Control
ELT	214	Devices II	10111	-10	Technical Electives *
ELT	220	Digital II			Subtotal: 18
ELT	244	Electrical Machinery and Controls OR4			
EET	270	Electrical Motor Controls I AND(2)			Total 60-62
EET	271	Electrical Motor Controls I Lab(2)			
ELT	250	Programmable Logic Controllers OR4			ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or
EET	276	Programmable Logic Controllers AND(2)	any oth	er course	as approved by the program coordinator.
EET	277	Programmable Logic Controllers Lab(2)		Modio	al Equipment and Instrumentation Track 150000710
		Technical Electives *9			al Equipment and Instrumentation Track – 150000710
		Subtotal: 24	ELT	214	Devices II
		Tr 1	BIO	135	Basic Anatomy and Physiology with Laboratory
		Total 66-68	BMT	200	Insight into Biomedical Equipment Technology
*Tochn	ical Electi	ves: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or	BMT	202	General Equipment Studies
		as approved by the program coordinator.	BMT	204	Electrical, Mechanical, and Optical Principles
uny Oth	or course i	arprises of the program coordinator.	BMT	205	Biomedical Equipment Practices I
		Computer Aided Design Track – 150000702	BMT	206	Specialized Biomedical Equipment
			BMT	207	Biomedical Equipment Practices II
CAD	150	(Offered at HPC, JFC)  Programming in CAD OR	BMT	209	Clinical         2           Subtotal         23
CAD	150 290	Programming in CAD OR			Subtotal 23
ELT		Selected Topics in Engineering Technology OR(3-4)			Total 65-67
ADFT	130	Introduction to Architecture(4)			

## **Diplomas**

## Electronics - 1500004019

(Offered at BLC, BSC, ELC, HPC, JFC, MDC, MYC, OWC, SEC, SMC)

Gener	General Education:							
Area 1:		Written Communication or Oral Communications						
Area 2:								
MAT	150	College Algebra OR						
MAT	126	Technical Algebra and Trigonometry(3)						
		Subtotal: 6						
Core:								
ELT	110	Circuits I5						
ELT	114	Circuits II5						
ELT	210	Devices I4						
ELT	120	Digital I						
CAD	100	Introduction to Computer Aided Design OR						
		Equivalent Course with Consent of Program Coordinator(3-4)						
		Computer/Digital Literacy						
ELT	289	Engineering and Electronics Technology Capstone Course 1						
COED	198	Practicum OR						
COE	199	Cooperative Education OR(1-2)						
		Equivalent Course with Consent of Program Coordinator (1-2						
		Subtotal: 25-27						
ELT	214	Devices II4						
ELT	220	Digital II						
		Technical Electives *						
		Subtotal: 20						
		Total 51-53						
arm 1 c	1.51	A FET ET EVE IVE GIG GIT NIG IT VOV. GAR ICT MEG						

 $<sup>\</sup>ast$  Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

# Apprenticeship- 1500004059

(Offered at JFC)

### **General Education:**

Area 1:		Written Communication or Oral Communications 3 AND
Area 2:		
MAT	150	College Algebra OR
MAT	126	Technical Algebra and Trigonometry(3)
		Subtotal: 6
Core:		
ELT	110	Circuits I
ELT	114	Circuits II5
ELT	210	Devices I4
ELT	120	Digital I
CAD	100	Introduction to Computer Aided Design OR
		Equivalent Course with Consent of Program Coordinator(3-4)
		Computer/Digital Literacy
ELT	289	Engineering and Electronics Technology Capstone Course 1
COED	198	Practicum OR
COE	199	Cooperative Education OR(1-2)
		Equivalent Course with Consent of Program Coordinator (1-2
		Subtotal: 25-27
APS	201	Apprenticeship Studies
		Subtotal: 24
		Total 55-57

<sup>\*</sup>Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Industrial Electronics – 1500004079

(Offered at BLC, HPC, JFC, MYC, OWC, SEC)

#### **General Education:**

Area 1:		Written Communication or Oral Communications 3 AND
Area 2:		
MAT	150	College Algebra OR
MAT	126	Technical Algebra and Trigonometry(3)
		Subtotal: 6
Core:		
ELT	110	Circuits I
ELT	114	Circuits II
ELT	210	Devices I4
ELT	120	Digital I
CAD	100	Introduction to Computer Aided Design OR
		Equivalent Course with Consent of Program Coordinator(3-4)
		Computer/Digital Literacy
ELT	289	Engineering and Electronics Technology Capstone Course 1
COED	198	Practicum OR
COE	199	Cooperative Education OR(1-2)
		Equivalent Course with Consent of Program Coordinator (1-2
		Subtotal: 25-27
ELT	214	Devices II
ELT	220	Digital II3
ELT	244	Electrical Machinery and Controls OR4
EET	270	Electrical Motor Controls I AND(2)
EET	271	Electrical Motor Controls I Lab(2)
ELT	250	Programmable Logic Controllers OR4
EET	276	Programmable Logic Controllers AND(2)
EET	277	Programmable Logic Controllers Lab(2)
		Technical Electives *
		Subtotal: 24
		Total 55-57

<sup>\*</sup>Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

## Engineering Design Technician - 1500004089

(Offered at JFC)

#### **General Education:**

Area 1:		Written Communication or Oral Communications 3 AND
Area 2:		
MAT	150	College Algebra OR
MAT	126	Technical Algebra and Trigonometry(3)
		Subtotal: 6
Core:		
ELT	110	Circuits I
ELT	114	Circuits II
ELT	210	Devices I4
ELT	120	Digital I
CAD	100	Introduction to Computer Aided Design OR
		Equivalent Course with Consent of Program Coordinator(3-4)
		Computer/Digital Literacy
ELT	289	Engineering and Electronics Technology Capstone Course 1
COED	198	Practicum OR1-2
COE	199	Cooperative Education OR(1-2)
		Equivalent Course with Consent of Program Coordinator (1-2
		Subtotal: 25-27

CAD ELT ADFT CAD CAD	150 290 130 200 201	Programming in CAD OR	ELT IT ELT IT ELT IT ELT ELT NIS IT	234 105 105 232 205 205 220 160 120	Computer Hardware Maintenance OR Computer Maintenance Essentials OR. Computer Maintenance Essentials Computer Software Maintenance OR Advanced Computer Maintenance OR Advanced Computer Maintenance Digital II. Networking Core Technologies OR Cisco Internetworking I OR	(3) (3) 3 (3) (3) 3
		es: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or approved by the program coordinator.	CIT	160	Data Communications and Networking	(4)
		Communications — 1500004029 (Offered at BLC, ELC, JFC, OWC, SEC, SMC)			Total 52-	
Gener Area 1:	ral Educ	eation: Written Communication or Oral Communications			ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, cas approved by the program coordinator.	r
Area 2:		AND			Mechanical – 1500004069	
MAT MAT	150 126	College Algebra OR		1.5.1	(Offered at JFC, OWC)	
101/11	120	Technical Algebra and Trigonometry(3) <b>Subtotal:</b> 6			ucation:	2
Core:			Area 1		Written Communication or Oral Communications AND	3
ELT	110	Circuits I5	Area 2 MAT	: 150	College Algebra OR	3
ELT	114	Circuits II	MAT	126	Technical Algebra and Trigonometry	
ELT	210	Devices I			Subtotal:	6
ELT CAD	120 100	Digital I	<b>C</b>			
		Equivalent Course with Consent	Core:	110	Circuits I	5
		of Program Coordinator(3-4)	ELT	114	Circuits II	
ELT	200	Computer/Digital Literacy	ELT	210	Devices I	
ELT COED	289 198	Engineering and ElectronicsTechnology Capstone Course 1 Practicum OR	ELT	120	Digital I	
COE	199	Cooperative Education OR	CAD	100	Introduction to Computer Aided Design OR Equivalent Course with Consent of Program Coordinator(3 Computer/Digital Literacy	-4)
		Subtotal: 25-27	ELT	289	Engineering and Electronics Technology Capstone Course	
ELT	214	Devices II4	COED		Practicum OR	
ELT	220	Digital II	COE	199	Cooperative Education OR	
ELT	240	Communications Electronics			Equivalent Course with Consent of Program Coordinator ( Subtotal: 25-	
		Subtotal: 24	ELT	122	Markanial Daniar Tanananian Cantana AND	2
			ELT ELT	122 124	Mechanical Power Transmission Systems AND	
		Total 55-57	IMT	150	Maintaining Industrial Equipment I AND	
*Techni	cal Elective	es: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or	IMT	151	Maintaining Industrial Equipment I Lab	(2)
any othe	er course as	approved by the program coordinator.	ELT	265	Applied Fluid Power	
		Computer Maintenance 1500004040	BRX CAD	120 200	Basic Blueprint Reading	
		Computer Maintenance – 1500004049	CHD	200	Technical Electives *	
~		(Offered at BLC, ELC, JFC, OWC, SEC, SMC)				-23
Gener Area 1:	ral Educ	Cation: Written Communication or Oral Communications			Total 53-	-56
mea 1:		AND				
Area 2:					ives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, C	r
MAT	150	College Algebra OR	any oth	er course	as approved by the program coordinator.	
MAT	126	Technical Algebra and Trigonometry(3) <b>Subtotal:</b> 6			Robotics and Automation – 1500004039	
					(Offered at BLC, BSC, HPC, JFC, MYC, OWC, SKY)	
Core:	110	Circuits I			acation:	
ELT	114	Circuits II	Area 1	:	Written Communication or Oral Communications AND	3
ELT	210	Devices I4	Area 2	:	MND	
ELT	120	Digital I	MAT	150	College Algebra OR	3
CAD	100	Introduction to Computer Aided Design OR	MAT	126	Technical Algebra and Trigonometry	
		Computer/Digital Literacy			Subtotal:	6
ELT	289	Engineering and Electronics Technology Capstone Course 1	Core	:		
COED		Practicum OR	ELT	110	Circuits I	5
COE	199	Cooperative Education OR	ELT	114	Circuits II	
		Equivalent Course with Consent of Program Coordinator (1-2 <b>Subtotal:</b> 25-27	ELT	210	Devices I	4
		25-21				

Month	ELT	120	Digital I3	Core:		
Computer Digital Hersey	CAD	100		ELT	110	Circuits I5
Ent   289   Engineering off Electronics Technology Captone Control   120   Coperative Principation OR				ELT	114	Circuits II
Constraint   Constraint   Constraint   Constraint   Constraint   Computer Adual Design OR		• • • •				
Cooperative Education OR						
Equivalent Course with Consent of Program Coordinator (1-2				CAD	100	
Subtotale   Subt	COE	199				
Fig.				FIT	289	
Color   Part						
Carrier   12   Carrier   13   Carrier   13   Carrier   14   Carrier   15   Carrier   15   Carrier   15   Carrier   16   Carr						
Section   Sect						
ELIC   244   Electrical Machinery and Controls O.R.						
Fig.   207				EIT	222	Maghanica of Talanhany
Fig.   271						
EUT   250						
EFT   276   Programmable Logic Controllers AND   (2)   ELT   214   Devices II.   .						
Programmable Logic Controllers Lab.	EET	276				Devices II4
Subtotale   Subt	EET	277	Programmable Logic Controllers Lab(2)	ELT	220	
Total			Technical Electives *			Subtotal 15-16
**Technical Electrics** Amy EFF, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.    **Instrumentation - 1500004099			Subtotal: 24			Total 46-49
Second   S			Total 55-57	* Toobni	ical Elactiv	COLUMN EET ET EIT IMT CIG CIT NIG IT ISM CAD ICT MEC OF
Instrumentation	*Technic	cal Elective	es: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or			
Instrumentation				arry our	er course a	supproved by the program coordinator.
Name	,				Med	ical Equipment Service Technician - 1500004119
Concest   State   Concest   Conces			Instrumentation – 1500004099	Cono		• •
Area 1:         Written Communication or Oral Communications         Area 2:         Area 3:         Area 3:         College Algebra OR			(Offered at ELC)			
Area	Gener	al Educ	ration:	rirea r	•	
MAT   150   College Algebra OR   3   3   3   3   5   5   5   5   5   5				Area 2	:	
MAT   150   College Algebra OR				MAT	150	College Algebra OR
Name	Area 2:			MAT	126	
Subtotal:	MAT	150				Subtotal: 6
Cor	MAT	126				
Corporative Education OR			Subtotal: 6			
ELT   110   Circuits I	Corre					
ELT   114   Circuits II		110	Circuite I			
ELT   210   Devices						
ELT   120   Digital I						
Equivalent Course with Consent of Program Coordinator (3-4)   EUT   289   Engineering and Electronics Technology Capstone Course 1   COED   198   Practicum OR	ELT	120	Digital I			
Equivalent Course with Consent of Program Coordinator (3-4)   EUT   289   Engineering and Electronics Technology Capstone Course 1   COED   198   Practicum OR	CAD	100	Introduction to Computer Aided Design OR			Computer/Digital Literacy
ELT   289   Engineering and Electronics Technology Capstone Course			Equivalent Course with Consent of Program Coordinator(3-4)	ELT	289	
COED   198						
COE   199   Cooperative Education OR				COE	199	1
Equivalent Course with Consent of Program Coordinator (1-2 Subtotal: 25-27 Subtotal: 20 Insight into Biomedical Equipment Technology 2 Subtotal: 20 General Equipment Studies 3 Subtotal: 20						-
Subtotal:   25-27   ELI   214   Devices II	COE	199	•			Subtotal: 25-21
BIO 135 Basic Anatomy and Physiology with Laboratory. 4 ELT 220 Digital II				ELT	214	Devices II5
ISM   102   Fundamentals of Instrumentation			23 27	BIO	135	
SM   210   Fundamentals of Process Control   4   BMT   204   Electrical, Mechanical, and Optical Principles   3   Technical Electives *   9   BMT   205   Biomedical Equipment Practices I   1   Subtotal:   20   BMT   206   Specialized Equipment Studies   3   BMT   207   Biomedical Equipment Practices II   1   1   1   1   1   1   1   1   1						
Technical Electives *						
Subtotal:  Total  Total	ISM	210				
Total  Total  S1-53 BMT 207 Biomedical Equipment Practices II						
*Total 51-53 BMT 209 Clinical			Subtotal. 20			
*Technical Electives: Any EET, ET, ELT, IMT, CIS, CIT, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.  *Total 55–57  *Digital Telephony - 1500004109  *Certificates  General Education:  Area 1: Written Communication or Oral Communications 3  AND  Area 2: (Offered at BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)  *ELT 110 Circuits I 5  *ELT 114 Circuits II			Total 51-53			1 1
any other course as approved by the program coordinator.    Digital Telephony - 1500004109   Certificates	*T 1 ·	1.51	A FET ET FIT IMT CIG CIT NIG IT ICM CAD ICT MEC			Subtotal 24
Digital Telephony - 1500004109  General Education:  Area 1: Written Communication or Oral Communications 3 AND  Area 2: Coffeed at BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)  MAT 150 College Algebra OR 3 ELT 110 Circuits I 5  MAT 126 Technical Algebra and Trigonometry 3 Subtotal: 6 ELT 120 Digital I 3  Subtotal: 3  MAT 126 Subtotal: 3  MAT 127 Digital I 3  MAT 128 Subtotal: 3  MAT 129 Digital I 3  MAT 120 Digital I 3			·			Total EE 57
General Education:           Area 1:         Written Communication or Oral Communications         3         Electronics Tester – 150003089           AND         (Offered at BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)           MAT 150         College Algebra OR         3         ELT 110         Circuits I         5           MAT 126         Technical Algebra and Trigonometry         (3)         ELT 120         Digital I         3           Subtotal:         6         ELT 120         Digital I         3	uny outer	. course u				10tai 33-37
General Education:  Area 1: Written Communication or Oral Communications 3 AND  Area 2: College Algebra OR 3 MAT 126 Technical Algebra and Trigonometry (3) Subtotal: 6  General Education:  BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)  ELT 110 Circuits I 5 ELT 114 Circuits II 5 ELT 120 Digital I 3			Digital Telephony - 1500004109			Certificates
AROD  Area 2:  MAT 150 College Algebra OR		al Edu				
Area 2: (Offered at BLC, BSC, ELC, HEC, HPC, JFC, MTC, OWC, SEC, SK1, SMC)  MAT 150 College Algebra OR	Area 1:					Electronics Tester - 1500003089
Area 2:       ELT 110 Circuits I       5         MAT 150 College Algebra OR       3       ELT 114 Circuits II       5         MAT 126 Technical Algebra and Trigonometry       (3)       ELT 120 Digital I       3         Subtotal:       6       ELT 120 Digital I       3	A 2		AND	(0	ffered at	BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)
MAT 126 Technical Algebra and Trigonometry		150	College Algebra OR			Circuits I
Subtotal: 6 ELI 120 Digital I						
10tal 13	-	-		ELT	120	e
						10141 13

		Electronics lechnician — I 500003069		I	ndustriai Electronics Technician I – 1500003129	
((	Offered at B	LC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)		(Offere	d at BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY)	
ELT	110	Circuits I	ELT	110	Circuits I	5
ELT	114	Circuits II	ELT	114	Circuits II	
ELT	210	Devices I4	ELT	120	Digital I	3
ELT	214	Devices II4	ELT	250	Programmable Logic Controllers OR	
ELT	120	Digital I	EET	276	Programmable Logic Controllers AND	
ELT	220	Digital II	EET	277	Programmable Logic Controllers Lab	
		Total 24			Total	17
		Maintenance Technician – 1500003059		l	ndustrial Electronics Technician II – 1500003139	
	(Offered a	t BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY)		((	Offered at BLC, BSC, HPC, JFC, MYC, OWC, SEC, SKY)	
CAD	100	Introduction to Computer Aided Design OR	ELT	110	Circuits I	
CHID	100	Equivalent Course with Consent of Program Coordinator(3-4)	ELT	114	Circuits II	
ELT	110	-	ELT	210		
ELT		Circuits I			Devices I	
ELT	114	Circuits II	ELT	214	Devices II	
ELT	265	Applied Fluid Power	ELT	120	Digital I	
ELT	244	Electrical Machinery and Controls OR4	ELT	220	Digital II	
EET	270	Electrical Motor Controls I AND(2)	ELT	244	Electrical Machinery and Controls OR	
EET	271	Electrical Motor Controls I Lab(2)	EET	270	Electrical Motor Controls I AND	(2
ELT	250	Programmable Logic Controllers OR4	EET	271	Electrical Motor Controls I Lab	(2
EET	276	Programmable Logic Controllers AND(2)	ELT	250	Programmable Logic Controllers OR	4
EET	277	Programmable Logic Controllers Lab(2)	EET	276	Programmable Logic Controllers AND	
		Total 24-25	EET	277	Programmable Logic Controllers Lab	
		10411	LLI	_,,	Total	30
					iotai	32
	Robo	otics and Automation Technician – 1500003099				
		\ BLC, BSC, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC)			Mechanical Technician – 1500003149	
	-					
ELT	110	Circuits I	CAD	100	(Offered at BSC, HPC, JFC, MYC, OWC, SEC)	
ELT	114	Circuits II	CAD	100	Introduction to Computer Aided Design OR	
ELT	210	Devices I4			Equivalent Course with Consent of Program Coordinator	
ELT	120	Digital I	ELT	122	Mechanical Power Transmission Systems AND	
ELT	118	Manufacturing III, Computer Numerical Control OR 3	ELT	124	Mechanical Power Transmission Systems Lab OR	1
CMM	132	CAD/CAM/CNC(3)	IMT	150	Maintaining Industrial Equipment I AND	(3)
ELT	265	Applied Fluid Power	IMT	151	Maintaining Industrial Equipment I Lab	(2)
ELT	260	Robotics and Industrial Automation	ELT	265	Applied Fluid Power	
ELT	244	Electrical Machinery and Controls OR4	BRX	120	Basic Blueprint Reading	
EET	270	Electrical Motor Controls I AND(2)	CAD	200	Intermediate Computer Aided Drafting	
EET	271	Electrical Motor Controls I Lab(2)	0.12	_00		17-19
ELT	250	Programmable Logic Controllers OR				
EET	276	Programmable Logic Controllers AND(2)				
EET	277				Automation Technician – 1500003229	
EEI	211	Programmable Logic Controllers Lab(2)		(Offere	d at BLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SKY)	
		Total 36	FIT			
			ELT	110	Circuits I	
		Digital Telephony Technician – 1500003119	ELT	244	Electrical Machinery and Controls OR	
	'	•	EET	270	Electrical Motor Controls I AND	
		(Offered at BSC, JFC, MYC, SEC)	EET	271	Electrical Motor Controls I Lab	
ELT	222	Mechanics of Telephony	ELT	250	Programmable Logic Controllers OR	4
ELT	224	Basic Telecoms Installation and Maintenance	EET	276	Programmable Logic Controllers AND	(2
ELT	226	Safety in the Workplace OR	EET	277	Programmable Logic Controllers Lab	(2
ISX	100	Industrial Safety(3)	ELT	265	Applied Fluid Power	3
ELT	110	Circuits I			Total	16
ELT	120	Digital I				
		Computer/Digital Literacy				
		Total 19-20			Communications Technician – 1500003039	
		17 24		(Off	ered at BLC, BSC, ELC, HPC, JFC, MYC, OWC, SEC, SMC)	
			ELT	110	Circuits I	
	Con	nputer Maintenance Technician – 1500003029	ELT	114	Circuits II	
		EBLC, BSC, ELC, HEC, HPC, JFC, MYC, OWC, SEC, SMC)	ELT	210	Devices I	
ELT	110	Circuits I	ELT	214	Devices II	
ELT	120	Digital I	ELT	120	Digital I	
	221	Computer Literacy	ELT	240	Communications Electronics	
ELT	234	Computer Hardware Maintenance OR			Total	27
IT	105	Computer Maintenance Essentials OR(3)				
ELT	105	Computer Maintenance Essentials(3)				
ELT	232	Computer Software Maintenance OR				
ΙT	205	Advanced Computer Maintenance OR(3)				
ELT	205	Advanced Computer Maintenance(3)				
		Total 17				

#### Instrumentation Technician – 1500003189 (Offered at BSC, ELC, JFC, MYC, OWC, SEC) 110 FIT ELT 114 Circuits II .......5 ISM 102 Fundamentals of Instrumentation......4 210 Fundamentals of Process Control......4 ISM General Medical Equipment Service Provider - 1500003169 ELT Circuits I ...... 5 ELT 114 210 ELT Devices I ...... 4 ELT 120 ELT 234 ΙT 105 Computer Maintenance Essentials OR.....(3) FIT 105 Computer Maintenance Essentials OR.....(3) BIO 135 Basic Anatomy and Physiology with Laboratory ...... 4 BMT200 **BMT** 202 **BMT** 204 205 **BMT Total Credits** CAD Technician – 1500003199 (Offered at HPC, JFC, MYC, OWC, SEC) CAD 100 DFT 122 Introduction to Computer Aided Drafting ......(4) CAD 200 Intermediate Computer Aided Drafting OR ...... 4 Intermediate Computer Aided Drafting ......(4) DFT 152 CAD 201 Advanced 3D Modeling OR ......4 Parametric Modeling.....(4) DFT 252 **Total Credits**

# **Environmental Science Technology**

This program includes specialized environmental science courses in addition to general education coursework to provide individuals the background necessary for understanding the ecological relationships of the environment. Coursework also emphasizes the application of scientific principles to pollution control problems in accordance with state and federal regulations. Practical lab and field experience in sampling and analysis will be stressed. Emphasis is placed on developing the students' ability to function effectively in a variety of job situations. Graduates of this program will be prepared to sample and analyze air, water and soil in accordance with state and federal regulations. Environmental technicians may be responsible for such job duties as air pollution surveillance, analysis of water and wastewater samples, ground water and surface water assessment, field sampling, data interpretation, and other support services to engineering and science professionals. Graduates in this field may be employed as technicians by federal, state and local governmental units as well as utilities, private industry, and environmental engineering consulting firms.

### **Admissions Requirements**

The following information has been taken from the Rules of the Senate and is subject to change without notice. All applicants meeting the appropriate academic requirements shall be considered equally for admission to Bluegrass Community and Technical College or to any academic program thereof regardless of economic or social status, and without

discrimination on the basis of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or physical or mental disability.

In order to be admitted to the Environmental Science Technology (EST) Program, each student must be admitted to Bluegrass Community and Technical College.

In order to be admitted to the Environmental Science Technology Program, a student must:

- Complete EST 150, EST 160, and MA 109 with a passing grade or transfer credit from an accredited institution for comparable courses (to be assessed by EST Coordinator), and
- Attend a pre-admission conference with the EST Program coordinator or the coordinator's designee.

# Associate in Applied Science

## Environmental Science Technology - 1505077019

	(Offered at BLC)					
ENG	101	Writing I*				
ENG	102	Writing II*				
MA	109	College Algebra*				
COM	181	Basic Public Speaking* OR				
COM	252	Intro to Interpersonal Communications*(3)				
		Social/Behavioral Sciences Course*				
		Technical Elective				
		Heritage/Humanities Course				
CIT	105	Intro to Computing				
BIO	112	*Introduction to Biology				
BIO	111	Intro to Biology Lab				
EST	150	Introductory Ecology4				
CIS	130	Microcomputer Applications				
CHE	170	General College Chemistry I				
CHE	175	General College Chemistry Lab I				
EST	160	Hydrolic Geology3				
EST	170	Environmental Sampling Laboratory				
EST	220	Pollution of Aquatic Ecosystems				
EST	230	Aquatic Chemistry Lab				
EST	240	Sources and Effects of Air Pollution4				
		Technical Elective				
EST	250	Solid and Hazardous Waste Management				
EST	260	Environmental Analysis Lab				
EST	270	Environmental Law and Regulation				
EST	280	Environmental Trends Seminar				
		Total Credits 66				

#### **Technical Electives**

recin	iicai Lie	ctives
PHY	151	Introductory Physics I
COE	199	Cooperative Education (Internship)
EST	299	Selected Topics in EST
STA	210	Statistics: A Force in Human Judgment
CAD	100	Intro to Computer-Aided Design
ACH	185	Computer-Aided Drafting I
GIS	110	Spatial Data Analysis
GIS	120	Introduction to Geographic Information Systems
CIS	234	Advanced Spreadsheet Applications
ENG	203	Business Writing
CHE	180	General College Chemistry II
CHE	185	General College Chemistry Lab II
GEO	210	Pollutions, Hazards, and Environmental Mgmt 3
GLY	220	Principles of Physical Geology4
ECO	201	Principles of Economics I

Surveying ......4

Courses not on this list may be approved at the coordinator's discretion.

<sup>\*</sup>Technical Electives: Any EET, ET, ENGT, ELT, IMT, CIS, NIS, IT, ISM, CAD, ICT, MFG, or any other course as approved by the program coordinator.

<sup>\*</sup> Satisfies General Education requirement for AAS degree

# **Environmental Technology**

The environmental technology program has been developed in concert with various regulatory agencies, state universities and businesses and industries. Environmental Technicians conducts tests and field investigations to obtain data for use by environmental, engineering, and scientific personnel in determining sources and methods of controlling pollutants in air, water and soil, by utilizing knowledge of agriculture, chemistry, meteorology, engineering principles and applied technologies.

## Certificates

Hazardous	<b>Materials</b>	Technician	-	1505073019
	(Offer	ed at BLC)		

CPU

ENV

FNV

100

ENV	110	Introduction to Environmental Technology4
ENV	111	Environmental Sampling Techniques Lab
ENV	120	Environmental Chemistry
ENV	121	Environmental Chemistry Lab
ENV	140	Geology, Hydrology and Soils4
ENV	141	Geology, Hydrology and Soils Lab
ENV	260	Hazardous Materials6
ENV	261	Hazardous Materials Lab
ENV	270	Treatment and Disposal Technologies
TEC	200	Technical Communications
Elect	ives:	
ENV	293	Special Problems I(1)
ENV	295	Special Problems II(2)
ENV	297	Special Problems III(3)
		Total Credits 37

### Waste Processing Attendant - 1505073029

		(Offered at BLC)	
ENV	110	Introduction to Environmental Technology	4
ENV	111	Environmental Sampling Techniques Lab	2
ENV	140	Geology, Hydrology and Soils	4
ENV	141	Geology, Hydrology and Soils Lab	2
ENV	260	Hazardous Materials	6
ENV	261	Hazardous Materials Lab	3
Elect	ives:		
ENV	293	Special Problems I	(1)
ENV	295	Special Problems II	(2)
ENV	297	Special Problems III	(3)
		Total Credits	21

### Wastewater Treatment Plant Attendant - 1505073039

		(Offered at BLC)	
ENV	110	Introduction to Environmental Technology	4
ENV	111	Environmental Sampling Techniques Lab	2
ENV	140	Geology, Hydrology and Soils	
ENV	141	Geology, Hydrology and Soils Lab	2
ENV	290	Wastewater Treatment Technology	
ENV	291	Wastewater Treatment Technology Lab	2
Elect	ives:		
ENV	293	Special Problems I	(1)
ENV	295	Special Problems II	(2)
ENV	297	Special Problems III	(3)
		Total Credits	20

## Wastewater Treatment Plant Operator - 1505073049

	Wa	astewater freatment Plant Operator - 1303073049	
CDII	100	(Offered at BLC)	2
CPU	100	Introduction to Computers	
ENV	100	Environmental Mathematics	
ENV	110	Introduction to Environmental Technology	
ENV	111	Environmental Sampling Techniques Lab	
ENV	120	Environmental Chemistry	
ENV	121 140	Environmental Chemistry Lab	
ENV		Geology, Hydrology and Soils	
ENV	141	Geology, Hydrology and Soils Lab	
ENV	270 290	Treatment and Disposal Technologies	
ENV		Wastewater Treatment Technology	
ENV TEC	291	Wastewater Treatment Technology Lab	
TEC	200	Technical Communications	
Elect			
ENV	293	Special Problems I	
ENV	295	Special Problems II	
ENV	297	Special Problems III	(3)
		Total Credits	36
		Water Treatment Plant Attendant - 1505073059	
		(Offered at BLC)	
ENV	110	Introduction to Environmental Technology	4
ENV	111	Environmental Sampling Techniques Lab	
ENV	140	Geology, Hydrology and Soils	4
ENV	141	Geology, Hydrology and Soils Lab	
ENV	280	Water Treatment Technology	
ENV	281	Water Treatment Technology Lab	2
Elect	ives:		
ENV	293	Special Problems I	(1)
ENV	295	Special Problems II	
ENV	297	Special Problems III	
		Total Credits	20
		Water Treatment Plant Operator - 1505073069	
		(Offered at BLC)	
CPU	100	Introduction to Computers	3
ENV	100	Environmental Mathematics	
ENV	110	Introduction to Environmental Technology	
ENV	111	Environmental Sampling Techniques Lab	
ENV	120	Environmental Chemistry	
ENV	121	Environmental Chemistry Lab	
ENV	140	Geology, Hydrology and Soils	
ENV	141	Geology, Hydrology and Soils Lab	
ENIX	270	T	

	(Offered at BLC)	
100	Introduction to Computers	j
100	Environmental Mathematics	j
110	Introduction to Environmental Technology4	
111	Environmental Sampling Techniques Lab	
120	Environmental Chemistry	j
121	Environmental Chemistry Lab	
140	Geology, Hydrology and Soils4	
141	Geology, Hydrology and Soils Lab	
270		
280	Water Treatment Technology	)
281	Water Treatment Technology Lab	
200		
ves:		
293	Special Problems I(1)	)
295	Special Problems II(2)	)
297		
	100 110 111 120 121 140 141 270 280 281 200 ives: 293 295	100         Introduction to Computers         3           100         Environmental Mathematics         3           110         Introduction to Environmental Technology         4           111         Environmental Sampling Techniques Lab         2           120         Environmental Chemistry         3           121         Environmental Chemistry Lab         1           140         Geology, Hydrology and Soils         4           141         Geology, Hydrology and Soils Lab         2           270         Treatment and Disposal Technologies         3           280         Water Treatment Technology         6           281         Water Treatment Technology Lab         2           200         Technical Communications         3           ives:         293         Special Problems I         (1)           295         Special Problems II         (2)

# **Equine Studies**

**Total Credits** 

The Equine Studies Program prepares students for entrance into the equine workforce with a focus on the thoroughbred racing industry. A core curriculum provides students with a foundation of knowledge applicable to any career in the equine workforce. Students will learn the basics of horse care, anatomy and physiology, lameness, health and nutrition and equine business principles. Students will also learn all aspects of the equine industry as it relates to the thoroughbred industry including organizations, regulations, and the life skills necessary for successful careers in the industry.

The program of study provides a foundation of education and training geared toward the expectations of employers in the equine/thoroughbred industries within two degree areas: Jockey Track and Horseman Track. Imbedded within the curriculum for each track are diplomas and certificates that provide the basic foundational skills for entry or midlevel employment in the respective area of the industry.

**EQS** 

125

299

**EQS** 

Jockey Track degree and diploma graduates will have the knowledge and skills for a career as a professional rider. Students will learn principles of balance as it relates to efficient racehorse exercise; proper position and use of hands, arms, feet, legs, back and head when riding or exercising a racehorse; requirements for advancing to a professional jockey career; and life skills necessary to be a professional racehorse rider or jockey. Imbedded within the Jockey Track curriculum is the Exercise Rider Certificate that provides basic skills and techniques to prepare the student to become a professional exercise rider.

Horseman Track graduates will have the knowledge and skills for a career in the equine/thoroughbred workforce such as grooms, assistant trainers, racing officials, farm management, bloodstock agents and other professions in the racing and breeding industries. Students will learn the principles and techniques as they relate to the breaking, prepping and training of horses; health and nutrition; equine management; and life skills necessary to be a professional in the equine/thoroughbred workforce. Imbedded in the Horseman Track curriculum is the Racehorse Care and Breaking Certificate to provide students with the basics of horse care and principles and techniques as they relate to the breaking and prepping of horses.

#### Other Certificates:

The Equine Industry Workforce Certificate will prepare students for entry level careers in the equine industry. Students will learn the basics of equine studies, equine physiology, and care of the racehorse. Lecture classes will be provided online through BCTC/NARA, while the hands-on laboratory work associated with the courses may be offered by BCTC/NARA or in partnerships with other KCTCS colleges and racecourses within their districts.

The Veterinary Assistant Certificate will prepare students for application into the AAS in Veterinary Technology program at Morehead State University. Students will receive a core of general education courses, as well as an introduction to animal sciences and physiology. The racehorse care class and one credit hour of co-operative education in a local veterinary clinic will provide the student with the work experience/job shadowing hours typically required for consideration of acceptance into a Veterinary Technology program.

# Associate in Applied Science

## **Equine Studies - 0105077019**

(Offered at BLC)

### **General Education:**

Quantitative Reasoning	3
Natural Sciences	
Social/Behavioral Sciences	3
Heritage/Humanities	3
Written Communication	3
Total General Education Requirements	15

#### **Technical Core:**

		Computer/Digital Literacy	0-3
EQ	S 101	Introduction to the Thoroughbred	
EQ	S 103	Racehorse Care	
EQ	S 104	Racehorse Care Lab	3
EQ	S 110	Basic Equine Physiology	3

EQS	125	Equine rearm and Nutrition
EQS	130	Introduction to the Racing Industry
EQS	200	Lameness in Racehorses
EQS	240	Equine Legal and Business Principles
		Technical Electives
		Total Technical Core 28-31
		Jockey Track - 010507701
		(Offered at BLC)
EQS	111	Introduction To Riding Racehorses
EQS	112	Racehorse Riding Skills I
EQS	113	Racehorse Riding Skills II
EQS	212	Racehorse Riding Principles
EQS	213	Racehorse Riding Techniques
EQS	215	Life Skills for Jockeys
240		Subtotal Jockey Track 17
		Total Jockey Track AAS 60-63
		<b>33</b>
		Horseman Track - 010507702
FOS	110	(Offered at BLC)
EQS	118	Equine Bloodstock
EQS	121	Introduction to Breaking and Training Racehorses
EQS EQS	122 123	Yearling Breaking and Training
EQS	223	Breaking and Prepping Two Year Olds
EQS	225	Life Skills for Horsemen
LQS	223	Subtotal Horseman Track 17
		Total Horseman Track 60-63
Appro	ved Tech	nical Electives
PP		Any EQM or EQS course from alternate track. Six (6) credit
		hours of electives must be taken from the approved list. This
		list
		is not all inclusive. Other technical elective courses may be
		taken
		with approval of the program advisor/faculty.
SPA	101	Elementary Spanish4
EQM	120	Introduction to Commercial Breeding Practices
EQS	118	Equine Bloodstock
EQS	299	Equine Cooperative Education (internship)
		Diplomas
		Equine Studies - 0105074019
		(Offered at BLC)
Gene	ral Edu	acation Core
Area I		(Written Communication / Oral Communications, or
		Humanities/Heritage)
Area II	I	(Social/Behavioral Sciences, Natural Sciences, or
		Quantitative Reasoning)
Toch	nical C	General Education Total
recni	nical C	Computer/Digital Literacy
EQS	101	Introduction to the Thoroughbred
EQS	103	Racehorse Care
EQS	104	Racehorse Care Lab
EQS	110	Basic Equine Physiology
EQS	125	Equine Health and Nutrition
EQS	130	Introduction to the Racing Industry
EQS	200	Lameness in Racehorses
EQS	240	Equine Legal and Business Principles
FOS	299	Fauine Cooperative Education (1 credit hour min

Equine Cooperative Education (1 credit hour min

**Total Technical Core** 

29-32

		Jockey Track - 010507401 (Offered at BLC)
EQS EQS EQS EQS EQS EQS	111 112 113 212 213 215	Introduction to Riding Racehorses
		Total Jockey Track Diploma 52-55
		Horseman Track - 010507402
EQS EQS EQS EQS EQS	118 121 122 123 223 225	(Offered at BLC)         Equine Bloodstock       3         Introduction to Breaking and Training Racehorses       1         Yearling Breaking and Training       3         Breaking and Training Yearlings/Two Year Olds       3         Training Principles and Practices       4         Life Skills for Horsemen       3         Subtotal Horseman Track       17         Total Horseman Track       52-55
Appr	oved Te	echnical Electives
SPA EQM EQS EQS	101 120 118 299	Any EQM or EQS course from alternate track. Six (6) credit hours of electives must be taken from the approved list. This list is not all inclusive. Other technical elective courses may be taken with approval of the program advisor/faculty.  Elementary Spanish
		Certificate
		Exercise Rider - 0105073019
EQS EQS EQS EQS EQS EQS EQS	101 103 104 110 111 112 113 130	(Offered at BLC)         Introduction to the Thoroughbred       3         Racehorse Care       1         Racehorse Care Lab       3         Basic Equine Physiology       3         Introduction to Riding Racehorses       1         Racehorse Riding Skills I       4         Racehorse Riding Skills II       4         Introduction to the Racing Industry       3         Total Credits       22
		Racehorse Care and Breaking - 0105073049
EQS EQS EQS EQS EQS EQS EQS	101 103 104 110 121 123 125 130	(Offered at BLC)           Introduction to the Thoroughbred         3           Racehorse Care         1           Racehorse Care Lab         3           Basic Equine Physiology         3           Introduction to Breaking and Training Racehorses         1           Breaking and Prepping Two Year Olds         3           Equine Health and Nutrition         3           Introduction to the Racing Industry         3           Total Credits         20
EQS	101	Equine Industry Workforce - 0105073039 (Offered at BLC) Introduction to the Thoroughbred
EQS EQS EQS	103 104 299	Racehorse Care

EQ5	110	Basic Equine Physiology	
EQS	130	Introduction to the Racing Industry	3
EQS	200	Lameness in Racehorses	
		Total Credits	16
		Veterinary Assistant - 0105073059	
		(Offered at BLC)	
ENG	101	Writing I	3
BIO	112	Introduction to Biology	
CHE	140	Introductory General Chemistry	3
CHE	145	Introductory General Chemistry Lab	
COM	181	Basic Public Speaking	
MAT	116	Technical Mathematics	
AGR	240	Introduction to Animal Science	3
EQS	103	Racehorse Care	1
EQS	104	Racehorse Care Lab	
EQS	110	Basic Equine Physiology	3
EQS	299	Equine Co-op	
		Total Credits	27

Basic Equipe Physiology

110

EOS

# **Financial and Customer Services**

This certificate is designed to provide students with the financial, communication, and customer service skills necessary to be successful in the global financial services market. The certificate will require four primary areas of study including two fundamental courses, Spanish and customer service, and two courses in finance and communication, which enable different areas of emphasis.

## Certificate

# Financial and Customer Services Certificate – 5208033019

		(Official at Circo)	
SPA	101	Elementary Spanish	4
QMS	201	Customer Service Improvement Skills	3
OST	235	Business Communication Technology OR	3
COM	252	Introduction to Interpersonal Communication	
BAS	120	Personal Finance OR	3
BAS	294	Money and Financial Institutions	(3)
		Total Credits	13

# Fire/Rescue Science Technology

### Fire/Rescue Science Technology:

If you are interested in a career in the fire service, the Fire/Rescue Science Technology Program will prepare you for the challenges facing today's emergency responders. In the program you will learn the skills of fire suppression and prevention, technical rescue, hazardous materials, emergency medical care, and leadership. This program is beneficial whether you are seeking a career in emergency services (Fire, Rescue, EMS or Emergency Management) or if you are already involved in providing fire, rescue or EMS services in your community.

Students may enter the program with or without experience in emergency services. The degree, certificate, and diploma programs that are offered can help you in obtaining employment in various emergency service fields, or if you are already a firefighter, help you get that promotion you have been waiting for. Classes are offered through State Fire/Rescue Training and may be offered in various formats such as: Web courses, hybrid courses, and traditional classroom offerings. For more information regarding this program, contact your local State Fire/Rescue Training Area Office or see list of contacts on page 69.

### **Emergency Medical Technician Certificate:**

Students in the Emergency Medical Technician program are instructed in the proper care of sick and injured patients. Students are trained to treat victims suffering from traumatic and medical emergencies such as broken bones, puncture wounds, cardiac, and respiratory emergencies, vehicle accidents and more. This course meets the standards set forth by the US Department of Transportation National Standard Curriculum for EMT-Basic and the Kentucky Board of Emergency Medical Services. Students that successfully complete the course and its requirements will be awarded a certificate for Emergency Medical Technician, and will be prepared to challenge the certification examination process set forth by the Kentucky Board of Emergency Medical Services.

# Associate in Applied Science

### Fire/Rescue Science Technology - 4302037019

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SKY, SMC, WKC)

#### General Education:

Subtotal
Written Communication
Social/Behavioral Sciences
Natural Sciences
Quantitative Reasoning
Heritage/Humanities

#### **Technical Courses:**

		Computer/Digital Literacy	0-3
FRS	101	Introduction to Fire Service	3
FRS	102	Firefighters Basic Skills I	3
FRS	103	Firefighters Basic Skills II	3
FRS	104	Firefighters Intermediate Skills I	
FRS	105	Firefighters Intermediate Skills II	3
FRS	201	Firefighters Advanced Skills I	3
FRS	202	Firefighters Advanced Skills II	3
FRS	203	Firefighters Advanced Skills III	3
FRS	204	EMT First Responder	3
FRS	205	Fire Officer I	
FRS	206	Fire Officer II	8
FRS	207	Fire Officer III	6
		Subtotal	46-49
		Total Credits	61-64

NOTE: All FRS courses are available in modules; see course description section.

# Diploma

## Fire Chief - 4302034039

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SKY, SMC, WKC)

#### **General Education:**

Area 1	Written Communication, Oral Communications,
	or Humanities/Heritage3
Area 2	Social/Behavioral Sciences, Natural Sciences, or
	Quantitative Reasoning
	Subtotal 6

#### **Technical Courses:**

		Computer/Digital Literacy Course OR	
		demonstrated competency	0-3
FRS	101	Introduction to Fire Service	3
FRS	102	Firefighters Basic Skills I	3
FRS	103	Firefighters Basic Skills II	3
FRS	104	Firefighters Intermediate Skills I	3
FRS	105	Firefighters Intermediate Skills II	3

		Total Credits	52-55
		Subtotal	46-49
FRS	207	Fire Officer III	6
FRS	206	Fire Officer II	8
FRS	205	Fire Officer I	5
FRS	204	EMT First Responder	3
FRS	203	Firefighters Advanced Skills III	3
FRS	202	Firefighters Advanced Skills II	
FRS	201	Firefighters Advanced Skills I	3

NOTE: All FRS courses are available in modules; see course description section.

## Certificate

## Basic Firefighter - 4302033019

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SKY, SMC, WKC)

FRS	101	Introduction to Fire Service	3
FRS	102	Firefighters Basic Skills I	3
FRS	103	Firefighters Basic Skills II	3
FRS	104	Firefighters Intermediate Skills I	
		Total Credits	12

NOTE: All FRS courses are available in modules; see course description section.

## Advanced Firefighter - 4302033029

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SKY, SMC, WKC)

FRS	101	Introduction to Fire Service	3
FRS	102	Firefighters Basic Skills I	3
FRS	103	Firefighters Basic Skills II	3
FRS	104	Firefighters Intermediate Skills I	
FRS	105	Firefighters Intermediate Skills II	3
FRS	201	Firefighters Advanced Skills I	3
FRS	202	Firefighters Advanced Skills II	3
FRS	203	Firefighters Advanced Skills III	3
		Total Credits	24

NOTE: All FRS courses are available in modules; see course description section.

### Fire Officer - 4302033039

(Offe	red at ASC	C, BLC, BSC, ELC, HZC, JFC, MDC, MYC, OWC, SKY, SMC, WKC)
FRS	2051	Fire Prevention, Public Education and Fire Cause
		Determination II
FRS	2052	Firefighter Survival and Rescue
FRS	2053	Hazardous Materials Technician
FRS	2062	Managing Company Tactical Operations: Decision Making 1.0
FRS	2063	Instructional Techniques for Company Officers
FRS	2071	Company Officer
FRS	2072	Incident Command System (ICS)
FRS	2073	Leadership I: Strategies for Company Success 0.8
FRS	2074	Fire/Arson Detection (Arson I)
		Total Credits 13

NOTE: All FRS courses are available in modules; see course description section.

### Emergency Medical Technician - 5109042010

(Offered at ASC, BLC, BSC, ELC, GTW, HEC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)

		2112)	
FRS	2061	Emergency Medical Technician	6
		Total Credits	6

NOTE: Contact faculty concerning pre-requisites.

# **Funeral Service**

The Funeral Service program provides the educational foundation needed to seek a Kentucky or other state licensure, both as a funeral director and an embalmer.

The Funeral Service program at Southeast Kentucky Community and Technical College is a candidate for initial accreditation to The American Board of Funeral Service Education, 3414 Ashland Avenue, Suite G, St. Joseph, MO 64506 (816) 233 3747 (www.abfse.org)

CAUTION: Students applying for admission to the funeral service program should contact their respective state boards of funeral service regarding that state board's approval of this particular program of instruction.

# Associate in Applied Science

### Funeral Service -1203017019

(Offered at MDC, SEC)

#### **General Education:**

EING	101	writing i	
MAT	110	Applied Mathematics OR	3
MAT	146	Contemporary College Mathematics OR	(3)
		Higher-level Quantitative Reasoning course	(3)
BIO	135	Basic Anatomy and Physiology with Laboratory	4
BIO	225	Medical Microbiology	4
PSY	110	General Psychology OR	3
SOC	101	Introduction to Psychology	(3)
		Heritage/Humanities	
		Oral Communications	
		Subtotal	23

### **Technical Courses:**

		1Digital Literacy 0-3
FNS	101	Introduction to Funeral Service
FNS	115	Funeral Service Directing
ACC	201	Financial Accounting OR
ACT	101	Fundamentals of Accounting I(3)
FNS	130	Business and Mortuary Law
FNS	131	Funeral Service, Regulations, and Statutes
FNS	150	Pathology for Funeral Service
FNS	165	Sociology of Funeral Service
FNS	170	Thanatochemistry4
FNS	240	Restorative Arts4
FNS	110	Funeral Service Management and Merchandising
FNS	250	Embalming4
FNS	255	Embalming Practicum
FNS	120	Funeral Counseling4
FNS	275	Funeral Service Projects
BAS	200	Small Business Management
		Additional Course in Management, Marketing, Accounting,
		Or Computer Application(0-31)
		Subtotal 45
		Total 68

<sup>1</sup>Students who pass the Digital Literacy examination will be required to take an additional three hours in the areas noted above as approved by the program coordinator.

### **Funeral Service Program Aims and Objectives:**

- 1. Serve as a member of a human services profession.
- Participate as funeral service personnel in the community which he or she serves.
- Participate in the community between bereaved families and those engaged in the funeral service profession.
- Comply with federal, state and local regulatory guidelines of funeral service.
- Uphold responsibility for public health, safety, and welfare in caring for human remains.
- 6. Enlarge the background and knowledge of students about the funeral service profession.
- Educate students in every phase of funeral service and to help enable them to develop proficiency and skills necessary for the profession, as defined in the Preamble of the Standards for the American Board of Funeral Service Education.
- 8. Educate students concerning the responsibilities of the funeral service profession to the community at large.
- 9. Execute high standards of ethical conduct.
- 10. Educate students through a funeral service curriculum that is appropriate to the post-secondary level of instruction.
- 11. Encourage student and faculty research in the field of funeral service.

### **Funeral Service Admission Criteria:**

In order to be considered by the Admissions Committee for admission to the Funeral Service Program, each applicant must submit the following documentation by Nov 1 for the spring semester or April 1 for the fall semester in which the student is applying for admission:

- 1. Application for admission to the college;
- 2. Official high school transcript from a public high school, a certified nonpublic high school, a non-certified high school, a passing GED official score report or the student has completed a home school curriculum, subject both to the ability to benefit criteria for KCTCS financial aid purposes and to the KCTCS Assessment and Placement Policy.;
- 3. Official transcripts of all postsecondary education;
- 4. ACT (or SAT) and/or, ASSET or COMPASS test results;
- Documentation that ENG 101, MAT 110/146 or higher, PSY 110 or SOC 101, Heritage/Humanities, and Oral Communications courses will be completed by the last day of the semester preceding admission;
- Documentation of attendance at a Funeral Service Program Pre-Admission Conference or an interview with the program coordinator or designee; and
- 7. Completion of a selective admissions form.

Applications for admission to the Program may be accepted by the Admissions Committee later than the stated dates provided that:

- 1. Positions are still unfilled and
- 2. All the required documentation has been submitted.

Preference will be given to applicants:

- With an ACT composite score of 20 or above (or equivalent on the SAT, ASSET or COMPASS);
- 2. Who have completed 24 or more college credit hours with a GPA of 3.5 or better (4.0 scale).

#### Readmission

- 1. A student who withdraws from or earns lower than a "C" in a Funeral Service Program core course will be dropped from the Program.
- 2. Application for readmission to the Funeral Service Program must be made by the established college program deadline.

- Readmission to the Funeral Service Program will be dependent upon available resources.
- 4. In order to be considered for readmission by the Funeral Service Program Admissions Committee, the applicant must:
  - a. submit a written request to the Program Coordinator presenting documentation to justify readmission; and
  - b. meet current admission guidelines.

A student may be readmitted to the Funeral Service Program one time if a student furnishes sufficient evidence of remedial study, additional preparation, or resolution of factors contributing to unsuccessful course preparation. The student must repeat any course in the Funeral Services program in which a grade lower than "C" was earned. A student who withdraws or earns a grade lower than a "C" in a core course after readmission will be automatically and permanently dismissed from the program.

If more than two years have elapsed since initial enrollment in the first Funeral Service course, an applicant must repeat all Funeral Service courses unless the student has demonstrated current competency by passing exams equivalent to comprehensive course final examinations (both written and practical skills) if applicable.

#### Transfer Students

- Students wishing to transfer from an accredited Funeral Service program will be considered on an individual basis.
- 2. Admission will be dependent upon available resources.
- Students must meet all program admission requirements set by the college.
- No grade less than "C" in a course equivalent to a Funeral Service core course will be accepted for transfer.

### **Program Requirements**

In order to protect the Funeral Service provider, external facilities used by our students require data related to the health status of students. Therefore, prior to the first day of classes the student must submit the following:

- 1. PPD skin test results for TB;
- Two MMR immunizations or verification of having had a prior case of measles as certified by a physician if born after 1956;
- 3. Hepatitis B vaccine series; and
- 4. Two doses of Varivax or verification of a known case of chicken pox.

In addition, a student must submit to a criminal background check conducted by a provider approved by KCTCS. A failed background check, as determined by the Kentucky Board of Embalmers and Funeral Directors, or a refusal to submit to a background check will be just cause to remove a student from the program.

# **General Occupational/Technical Studies**

The Associate in Applied Science degree in General Occupational/ Technical Studies provides flexible alternatives for meeting student and employer needs. This program serves two general purposes: 1) Individualized program – provides a flexible curriculum that can be designed to meet specifics student and workplace needs, and 2) Degree completion – provides a structure through which credit may be granted for significant prior learning experiences in occupational/technical areas.

Credit earned through certificate and diploma program completion will be applicable toward the Associate in Applied Science in General Occupational/Technical Studies degree when consistent with the objectives of the student's individual plan of study. This heavily advisor-driven model can combine certificates and/or diplomas in different disciplines for meeting employer needs for unique skill combinations for which there is no established degree program. As much as twenty hours of credit for experiential learning may be applied toward degree completion. KCTCS certificate and diploma credit and acceptable credit transferred from other colleges may also be applied to a student's program completion plan. At least 25 percent of the approved curriculum credits must be completed at the KCTCS institution granting the degree.

# Associate in Applied Science

### General Occupational/Technical Studies - 3099997017

(Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)

Available Completely Online

#### General Education Component Minimum<sup>3</sup>

Quantitative Reasoning	3
Natural Sciences	3
Social/Behavioral Sciences	3
Heritage/Humanities	3
Written Communication	3
Additional General Education Coursework	0-5
Subtotal	15- 20

#### Technical Component Minimum<sup>3</sup>

Total Credits 60-68

#### NOTE:

¹If computer/digital literacy is demonstrated by a competency exam, an additional three credit hour course is required.

<sup>2</sup>The student must have a plan of study on file in the academic affairs office.

<sup>3</sup>A combination of general education and technical courses should not exceed 68 credits.

# Geographic Information Systems Technology

A Geographic Information System (GIS) is a powerful combination of mapping technology and databases, that, when combined, may create an array of spatially arranged data on a map surface for detailed analysis. Once the domain of a few specialized government agencies and the military, GIS is now utilized by virtually every branch of the government and has become commonplace throughout the private sector. GIS may be employed for a stunning variety of applications: environmental, marketing, demographic and urban planning are just a few of the fields in which GIS is currently utilized.

All students enrolled at Bluegrass Community and Technical College are eligible to pursue the GIS Technology Certificate. There is no application to enroll in the certificate, but it is suggested that if you elect to pursue the certificate that you inform the coordinator of the GIS Certificate as well as your technical advisor and the chair of your technical degree program. The curriculum is tailored to those enrolled in the following technical degree programs: Architectural Technology, Civil Engineering, Computer Information Systems and Environmental Science Technology. The acquisition of a two-year technical degree coupled with a Certificate in GIS Technology will make a graduate more marketable in his/her respective field. Those pursuing a B.A. or B.S. degree in geography will also find the curriculum tailored to their respective degree program.

The GISTechnology Certificate requires the completion of eighteen (18) credit hours of coursework. Non-certificate seeking students are free to take courses in GIS. All students pursuing the certificate must take the designated four core courses and technical electives.

### Certificate

## Geographic Information Systems Technology - 4507023029

(Offered at BLC)

reciii	iicui coi	· C.
GIS	110	Spatial Data Analysis and Map Interpretation
GIS	120	Introduction to Geographic Information Systems
GIS	210	Advanced Geographic Information Systems
CIT	105	Introduction to Computers
		Technical Electives*
		Total Credits 18
Technic	al Elective	es*: Choose six (6) credits from the following Technical
Elective	e Courses.	
GEO	130	Earth's Physical Environment
GEO	162	Introduction to Global Environmental Issues
CIT	170	Introduction to Database Design
		Approved Level I or Level II CIT Programming Language 3
		Course
EST	160	Fundamentals of Hydrological Geology
EST	250	Fundamentals of Solid Waste Management
CAD	100	Introduction to Computer-Aided Design
CAD	200	Intermediate Computer-Aided Design
ACH	195	Computer-Aided Drafting I
ACH	180	Special Topics in Architectural Technology

# **Global Studies**

The Associate of Applied Science Degree in Global Studies (Transfer) is designed to prepare students to be more globally aware and globally literate employees and citizens of the Commonwealth of Kentucky, the United States, and the world. It exposes students to a diverse set of courses and competencies which will prepare them to live and work in settings with diverse ethnic and cultural populations and to function more effectively as members of an increasingly interconnected world.

# Associate in Applied Science

### Global Studies - 3020017019

(Offered at JFC)

#### **Global Studies**

**ACH** 

CET

298

150

220

**Technical Core:** 

101	Writing I <sup>1</sup> AND	,
102	Writing II <sup>1</sup> OR	,
105	Writing: An Accelerated Course <sup>1</sup> and(3)	)
	Global Studies Humanities/Fine Arts <sup>2</sup> (3)	,
146	Contemporary College Mathematics <sup>1</sup> OR	,
150	College Algebra <sup>1</sup> (3)	)
	Natural Sciences <sup>1</sup>	-
	Social/Behavioral Sciences <sup>1</sup>	,
	Heritage/Humanities <sup>1</sup>	,
	Computer/Digital Literacy <sup>3</sup> 3	,
254		
	Foreign Language <sup>1</sup>	,
	One Study Abroad/Overseas Experience course	
	(HRS 200, IES 235 or other Study Abroad course from	
		,
	102 105 146 150	102         Writing II¹ OR         3           105         Writing: An Accelerated Course¹ and         (3)           Global Studies Humanities/Fine Arts²         (3)           146         Contemporary College Mathematics¹ OR         3           150         College Algebra¹         (3)           Natural Sciences¹         3-4           Social/Behavioral Sciences¹         3           Heritage/Humanities¹         3           Computer/Digital Literacy³         3           254         Introduction to Intercultural Communication¹         3           Foreign Language¹         8           One Study Abroad/Overseas Experience course         8

		Global Studies Heritage <sup>4</sup>	6
		Global Studies Humanities/Fine Arts <sup>2</sup>	6
		Global Studies Natural Science/Business <sup>5</sup>	
		Global Studies Social Interaction <sup>6</sup>	6
GBS	290	Global Studies Capstone Course	3
		Total	62-64

<sup>&</sup>lt;sup>1</sup> General Education

## Certificate

### Global Studies - 3020013010

(Offered at ELC, JFC)

		Total	19
		Global Studies Social Interaction <sup>6</sup>	3
		Global Studies Natural Science/Business <sup>5</sup>	3
		Global Studies Humanities/Fine Arts <sup>2</sup>	
		Global Studies Heritage <sup>4</sup>	
		Foreign Language	
COM	254	Introduction to Intercultural Communication	3

<sup>&</sup>lt;sup>2</sup> Select from Global Studies Humanities/Fine Arts list.

# **Health and Wellness Technology**

The Health and Wellness Technology degree offers a flexible, innovative curriculum designed to meet the changing needs of the health care marketplace. The program will educate students in the principles of integrative modalities and the promotion of health and well-being. The program will provide students with the skills and knowledge necessary to work in a variety of settings, including but not limited to, hospitals, massage clinics, rehabilitation clinics, spas, behavioral health clinics, wellness/fitness centers, doctor's offices, private practice, and athletic programs at the high school, college, or professional level.

The Massage Therapy Certificate Program will train the Massage Therapist in techniques ranging from an entry level Swedish Massage, for its therapeutic and relaxation benefits, through advanced clinical massage (sports and orthopedic massage) for the specific needs of athletes and to aid in recovery and rehabilitation from illness, injury and surgery. Using medical model, therapists will have expanded knowledge in Anatomy and Physiology, Kinesiology and Medical Terminology. Other modalities are introduced to the Massage Therapist's education to enhance their skills and knowledge. Business education is included in the program to assist therapists in the operation of a practice.

 $<sup>^{\</sup>rm 2}$  Select from Global Studies Humanities/Fine Arts list.

<sup>&</sup>lt;sup>3</sup> Students who pass the computer/digital literacy exam in lieu of completing an approved computer/digital literacy course must take an additional three (3) credits of Global Studies credit from the approved Global Studies course lists.

<sup>&</sup>lt;sup>4</sup>Select from Global Studies Heritage list.

<sup>&</sup>lt;sup>5</sup> Select from Global Studies Natural Science list.

<sup>&</sup>lt;sup>6</sup> Select from Global Studies Social Interaction list.

<sup>&</sup>lt;sup>4</sup> Select from Global Studies Heritage list.

<sup>&</sup>lt;sup>5</sup> Select from Global Studies Natural Science list.

<sup>&</sup>lt;sup>6</sup> Select from Global Studies Social Interaction list.

### Associate in Applied Science

#### Health and Wellness Technology - 5109997019

### Massage Therapy Track - 510999701

		(Offered at GTW)	
ENG	101	Writing I	3
ENG	102	Writing II	
COM	252	Introduction to Interpersonal Communication	3
		Quantitative Reasoning	3
BIO	137	Human Anatomy and Physiology I	4
BIO	139	Human Anatomy and Physiology II	4
PSY	110	General Psychology	3
		Social/Behavioral Sciences	
		Heritage/Humanities	6
		Subtotal	32
		Digital Literacy	0-3
MIT	103	Medical Office Terminology OR	3
CLA	131	Medical Terminology from Greek and Latin OR	(3)
AHS	115	Medical Terminology	(3)
CPR	100	CPR for the Healthcare Professional	1
SFA	100	Safety and First Aid	
BAS	200	Small Business Management OR	3
BAS	288	Personal and Organizational Leadership	(3)
MSG	100	Musculoskeletal Anatomy and Physiology I	4
MSG	110	Musculoskeletal Anatomy and Physiology II	
MSG	125	Massage Technique I	
MSG	135	Massage Technique II	3
MSG	205	Advanced Clinical Massage I	3
MSG	210	Advanced Clinical Massage II	3
MSG	215	Massage Therapy Student Clinic	2
MSG	220	Massage Therapy Practice	3
		Subtotal	33-36
		Total Credits (AAS)	65-68

### Certificate

#### Massage Therapy - 5109993019 (Offered at CTW)

		(Offered at GTW)	
MIT	103	Medical Office Terminology OR	3
CLA	131	Medical Terminology from Greek and Latin OR	(3)
AHS	115	Medical Terminology	(3)
CPR	100	CPR for the Healthcare Professional	1
MSG	100	Musculoskeletal Anatomy and Physiology I	4
MSG	110	Musculoskeletal Anatomy and Physiology II	4
MSG	125	Massage Technique I	
MSG	135	Massage Technique II	3
MSG	205	Advanced Clinical Massage I	3
MSG	210	Advanced Clinical Massage II	
MSG	215	Massage Therapy Student Clinic	
MSG	220	Massage Therapy Pathology	3
		Total Credits	29

# **Health Care Foundations**

This certificate will prepare entry-level health care workers with basic health care knowledge and skills in the areas of health care delivery and management, health care communication, basic skills I & II, pharmacology, clinical pathophysiology and medical terminology.

#### Certificate

#### Health Care Foundations-Basic - 5100003030

		(Offered at ASC, JFC)
HST	101	Health Care Basic Skills I
HST	102	Health Care Delivery & Management
HST	103	Health Care Communication
AHS	115	Medical Terminology
		Subtotal 11

#### Health Care Equipolations Intermediate \$100002020

	Health Gare Foundations-Intermediate - 5100003020				
		(Offered at ASC, JFC)			
HST	101	Health Care Basic Skills I	3		
HST	102	Health Care Delivery & Management	3		
HST	103	Health Care Communication	2		
AHS	115	Medical Terminology	3		
HST	121	Pharmacology	2		
HST	122	Clinical Pathophysiology	3		
HST	123	Health Care Basic Skills II	2		
		Subtotal	18		

# **Health Care Informatics**

The Health Care Informatics (HCI) program provides a tremendous advantage to health care practitioners through the combination of health care concepts and information technology management that is an integral part of the health care industry. The HCI certificates increase practitioner knowledge and skills that are required to aid in the reduction of health care costs, expanding access to quality care and improving the quality of services. Health Care Informatics is a discipline that integrates information science and computer science into the health care professions; thereby, gaining the ability to combine resources, devices and methods required for the acquisition, storage, retrieval and use of collected information and data in health sciences and biomedicine. Health Care Informaticists work in a variety of environments, including hospitals, clinics, physician offices, public health agencies, technological firms/vendors, research facilities and insurance firms. Enrollment in the HCI courses requires a minimum of an associate degree in health care, or a related field, or by instructor consent. Enrollment in the HCI-PM course requires completion of the Health Care Informatics certificate.

### Certificate

#### Health Care Informatics - 5107073049

		(Offered at MDC)	
HCI	200	Introduction to Health Care Informatics	3
HCI	210	Management of Health Care Information	
		and System Security	3
HCI	220	Database Systems in Health Care	3
HCI	230	Legalities and Ethics in Health Care Informatics	3
		Subtotal	12

### Health Care Informatics – Project Management - 5107073059

		(Offered at MDC)	
HCI	200	Introduction to Health Care Informatics	. 3
HCI	210	Management of Health Care Information	
		and System Security	. 3
HCI	220	Database Systems in Health Care	. 3
HCI	230	Legalities and Ethics in Health Care Informatics	. 3
HCI	240	Project Management for Health Care Informatics	
		Subtotal	16

# **Health Education**

The Personal Trainer Certificate offers a flexible, innovative curriculum designed to meet the changing needs of the wellness promotion and health care marketplace. The program will provide students with the skills and knowledge necessary to develop and implement exercise programs for healthy individuals or those who have medical clearance to exercise. Work settings include but are not limited to spas, fitness centers, weight loss clinics, corporate wellness centers, private practice, and high school athletic programs.

#### Certificate

#### Personal Trainer - 5109993029

(Offered at GTW) MIT 103 131 Medical Terminology from Greek and Latin OR .....(3) CLA AHS 115 Medical Terminology.....(3) CPR 100 100 SFA BAS 200 288 Personal and Organizational Leadership.....(3) BAS BIO 135 KHP 150 KHP 160 KHP 225 KHP 235 **Total Credits** 

# **Health Information Technology**

This program prepares the graduate to take an active role in the field of health information management. Graduates will interact with physicians, health professionals, and financial and administrative staffs to ensure the protection of information systems. Graduates will help determine health information budgets, resources and policies, utilizing current and accurate data. The curriculum includes course work in the supporting sciences and general education areas. Classroom instruction is supplemented with learning experiences in the campus laboratory and in area health care facilities. Students enrolled in the Health Information Program are required to achieve a minimum grade of "C" in each course in the program.

Health Information Technicians are employed in hospitals, medical clinics, nursing homes, other health care facilities and industry. Graduates with the AAS degree are qualified to write the American Health Information Management Association's / Commission on Certification for Health Informatics and Information Management (CCHIIM) Registered Health Information Technician examination and the CCA coding examination. Graduates of the medical records coding specialist certificate may write the American Health Information Management Association's CCA coding examination and the American Academy of Professional Coders' CPC-A (and others as qualified) coding examinations.

Documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first HIT course.

The Associate in Applied Science Degree Health Information Technology Program at Jefferson Community and Technical College is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Additional information may be found at CAHIIM's website URL: http://cahiim.org.

### Associate in Applied Science

#### Health Information Technology - 5107077019

	(Offered at BLC, GTW, HZC, JFC)				
Gener	General Education Requirements:				
ENG	101	Writing I	3		
ENG	102	Writing II			
COM	181	Basic Public Speaking OR			
COM	252	Introduction to Interpersonal Communications(3			
BIO	135	Human Anatomy and Physiology with laboratory OR			
BIO	137	Human Anatomy and Physiology I AND(4			
BIO	139	Human Anatomy and Physiology II(4			
MAT	110	Applied Mathematic OR			
MAT	150	College Algebra(3			
PSY	110	General Psychology OR			
SOC	101	Introduction to Sociology(3			
		Heritage/Humanities			
		Subtotal 22-2			
Techn	ical (	Course Requirements:			
CLA	131	Medical Terminology from Greek or Latin OR	3		
MIT	103	Medical Office Terminology OR(3	(		
AHS	115	Medical Terminology(3			
HIT	100	Introduction to Healthcare Delivery Systems			
HIT	105	Patho/Pharm for Health Information Professionals			
CIT	130	Productivity Software OR	3		
OST	240	Software Integration(3			
HIT	109	Clinical Classification Systems I	4		
HIT	110	Legal/Ethical Issues in Health Information	2		
HIT	112	Reimbursement Methodologies			
HIT	200	Information Systems in Healthcare	3		
HIT	202	Clinical Classification Systems II	3		
HIT	205	Performance Improvement in Health Information	3		
HIT	207	Clinical Classification Systems III	3		
HIT	211	Health Care Management & Statistics	3		
HIT	215	Clinical Practicum	4		
		Subtotal 4	1		
		Total Credits 63-6	7		
NOTE:	BIO 137	7 and BIO 139 are required at JCTC.			
Certificate					
	Madical Decay Coding Considies E107072010				

# Medical Record Coding Specialist- 5107073019

(Offered at GTW, JFC) CLA 131 Medical Terminology from Greek or Latin OR...... 3 MIT Medical Office Terminology OR .....(3) AHS 115 Medical Terminology.....(3) BIO Human Anatomy and Physiology with laboratory OR......4 135 BIO 137 Human Anatomy and Physiology I AND .....(4) Human Anatomy and Physiology II .....(4) BIO 139 HIT 100 HIT 105 Patho/Pharm for Health Information Professionals ...... 4 HIT 109 HIT 110 HIT 112 HIT 202 HIT 207 HIT 215 Clinical Practicum ......4 **Total Credits** 

#### Release of Information Data Specialist – 5107073039

		(Offered at GTW, JFC)	
HIT	100	Introduction to Health Information Technology	3
HIT	110	Legal/Ethical Issues in Health Information	2
		Total Credits	5

# **Health Physics**

The Health Physics program is designed to prepare students to conduct health physics activities in a variety of occupational and environmental settings. Students will study the basic properties of radiation including its origin, its interactions with matter, and radiation detection procedures. Rules and regulations governing human exposure to occupational radiation health hazards are covered. Emphasis is placed on the proper use of survey instrumentation to detect and measure occupational radiation health hazards, the equipment and techniques employed to conduct work-place and environmental surveys, and the current technologies used in hazard control. The Radiation Control Technician certificate prepares students for employment in a Department of Energy (DOE) facility. The AAS degree in Health Physics prepares the graduate for the National Registry of Radiation Protection Technologists examination and for employment at a nuclear facility.

# Associate in Applied Science

#### Health Physics - 5122057019

(Offered at WKC)

#### **General Education Courses**

PHY	152	Introduction to Physics OR higher level Physics course 3	
CHE	140	Introductory General Chemistry	
CHE	145	Introductory General Chemistry Laboratory	
BIO	112	Introduction to Biology	
BIO	113	Introduction to Biology Lab	
MAT	150	College Algebra or higher level	
		Quantitative Reasoning course	
ENG	101	Writing I	
ENG	102	Writing II	
COM	181	Basic Public Speaking OR	
COM	252	Introduction to Interpersonal Communication(3)	
		Social/Behavioral Sciences	
		Heritage/Humanities	
		Subtotal 29	

#### **Technical Courses**

		Computer/Digital Literacy*	0-3
HPH	101	Health Physics I	3
HPH	102	Health Physics II	3
HPH	120	Radiation Biology	3
HPH	201	Nuclear Instrumentation and Measurement I	4
HPH	202	Nuclear Instrumentation and Measurement II	4
HPH	246	Environmental Law	2
ISX	100	Industrial Safety	3
QMS	101	Introduction to Quality Systems	3
ITE	250	Team Dynamics and Problem Solving	3
BAS	287	Supervisory Management	3
		Subtotal	31-34
		Total Credits	60-63

<sup>\*</sup>Computer/Digital literacy must be demonstrated either by competency exam or by completing a computer/digital literacy course.

#### Certificate

#### Radiation Control Technician - 5122053039

(Offered at WKC)

		(Offered at WKC)	
HPH	100	Health Physics Fundamentals	3
HPH	101	Health Physics I	3
HPH	102	Health Physics II	. 3
HPH	201	Nuclear Instrumentation and Measurement I	. 4
HPH	202	Nuclear Instrumentation and Measurement II	. 4
		Total Credits	17

# **Health Science Technology**

The Health Science Technology (HST) program is designed to prepare students for entry-level career opportunities in the field of healthcare and health-related services. The program is designed for those students who seek entry level jobs as well as for the currently employed individual wishing to broaden skills for career enhancement. Graduates will possess marketable skills sets for direct services as well as the foundation needed to understand current health care delivery. Many of the general education and core courses are required for completion of varied professional health programs. Examples include diagnostic medical sonography, medical assisting, nursing, physical therapy assistant, radiography, respiratory care, and surgical technology. The HST provides a smooth transition or career pathway to an Allied Health or nursing selective admission program once a student is accepted.

A grade of "C" or better is required in each biological science and quantitative reasoning course.

# Associate in Applied Science

#### Health Science Technology – 5100007019

(Offered at ASC, HPC, JFC, WKC)

#### **General Education**

MAT	150	College Algebra and Functions OR	3
MAT	110	Applied Math	(3)
ENG	101	Writing I	3
ENG	102	Writing II	
BIO	135	Basic Human Anatomy OR	4
BIO	137	Human Anatomy & Physiology I AND	(4)
BIO	139	Human Anatomy & Physiology II	
PSY	110	General Psychology	3
		Social/Behavioral Sciences	3
		Heritage/Humanities	3
		Oral Communications	3
		Subtotal	25-29

#### **Technical Core:**

CLA	131	Medical Terminology from Greek and Latin OR.	3
AHS	115	Medical Terminology OR	
MIT	103	Medical Office Terminology	
NAA	100	Nursing Assistant Skills I	3
		Digital Literacy#	0-3
		Health Science Technical Courses**	29-30
		Subtotal	35-39
		Total	60-68

#Digital Literacy must be demonstrated by computer exam or successfully completing a digital literacy course.

\*\*Health Science Technical Course selection must result in final attainment of a minimum of three (3) certificate credentials.

Students may be able to earn certificates that are already present in other curricula, including but not limited to:

Nursing Assistant

Advanced Nursing Assistant

Phlebotomy for the Healthcare Worker

Pharmacy Technician I

Medical Coding

Medical Office Radiology

# **Healthcare Technology Management**

The Healthcare Technology Management (HTM) program prepares the adult learner to repair, maintain, and manage a wide variety of medical devices, equipment, and systems employed in various healthcare sectors. The learner will gain a holistic perspective of the life-cycle duties and skills needed to assure that medical devices meet safety and performance expectations. The program addresses both general and specialized medical technologies along with how these technologies are interfaced with health IT networks. Upon completion of the program, the graduate will be prepared for immediate employment as an entry-level healthcare technology management professional and may pursue employment with a number of employers including, but not limited to: hospitals, clinics, home health equipment companies, third-party medical equipment service providers, and medical equipment manufacturers.

# Associate in Applied Science

#### Healthcare Technology Management - 1504017019

(Offered at MDC)

~		(Office at MDC)
		cation Courses
ENG	101	Writing I
MAT	126	Technical Algebra and Trigonometry OR
MAT	150	College Algebra(3)
PHY	171	Applied Physics4
		Social/Behavioral Sciences
		Heritage/Humanities
		Subtotal 16
Techi	nical Su	pport Courses
AIT	1001	Basic Electrical Knowledge
AIT	1101	Electrical Power Distribution. 1
BIO	135	Basic Anatomy and Physiology with Laboratory
CIT	105	Introduction to Computing
CII	105	(fulfills digital literacy requirement)
CIT	111	Computer Hardware and Software
CIT	160	Introduction to Networking Concepts
CIT	180	Security Fundamentals
011	100	Subtotal 21
	nical Co	
HTM	100	The Healthcare Technology Management Profession 1
HTM	110	Environmental Risks and Precautionary Measures for the HTM Professional
HTM	120	Essentials of Biomedical Electronics I
HTM	125	Essentials of Biomedical Electronics II
HTM	130	Medical Equipment Management I
HTM	140	Science Principles Employed in Medical Technologies 1
HTM	200	Patient Care Support and Management Systems
HTM	210	Diagnostic Medical Equipment and Imaging Modalities 2
HTM	220	Laboratory Devices, Instruments, and Analyzers
HTM	230	Medical Equipment Management II
HTM	250	Introduction to Medical-Based IT Networks and Standards 2
HTM	260	Radiographic Imaging Modalities
HTM	270	Therapeutic Equipment Modalities I
HTM	275	Therapeutic Equipment Modalities II
HTM	280	General Care Monitoring and Instrumentation
HTM	285	Critical Care Monitoring and Instrumentation
HTM	290	Clinical for the Healthcare Technology Management
111111	200	Professional
		Subtotal 31
		Total 68
		Elective
НТМ	299	Selected Topics of Investigation in Healthcare $\dots (0.5-5.0)$ Technology Management

#### Certificate

### Foundations in Healthcare Technology Networking Systems - 1504013019

		(Offered at MDC)
CIT	105	Introduction to Computing
		(fulfills digital literacy requirement)
CIT	111	Computer Hardware and Software 4
CIT	160	Introduction to Networking Concepts4
CIT	180	Security Fundamentals
HTM	250	Introduction to Medical-Based IT Networks and Standards 2
		Subtotal 16
CIT CIT CIT	111 160 180	(fulfills digital literacy requirement)         Computer Hardware and Software       4         Introduction to Networking Concepts       4         Security Fundamentals       3         Introduction to Medical-Based IT Networks and Standards       2

# **Heavy Equipment Operation**

Designed to instruct students in the safe operation of heavy equipment, e.g., bulldozers, backhoes, front-end loaders, hydraulic excavators and graders. Instruction in digging, ditching, sloping, stripping, grading, back filling, clearing trees and rubble, and foundation excavating is provided as well as instruction in the proper care and maintenance of equipment.

### Diploma

#### Operating Engineer - 4902024019

(Offered at HZC, SEC) CIS 100 EFM 100 HEO 100 HEO 125 HEO 200 HEO 225 WPP 200 **Total Credits** 

#### **Recommended Elective:**

HEO	215	Heavy Equipment Operations .	(1-4)
		Total Credits	34-38

Note: HEO 150 Heavy Equipment Operations IA and HEO 250 Heavy Equipment IIA will be utilized when students are enrolled bi-term during the fall semester.

\*\*DIT 103 is a pre-requisite for courses in this program.

### Certificate

#### Backhoe Operator - 4902023019

		(Offered at HZC, SEC)	
HEO	109	Power Shovel Backhoe Operator	2
HEO	125	Special Problems	3
		Total Credits	5
		B. II.I	

#### Bulldozer Operator- 4902023029

		(Offered at HZC, SEC)	
HEO	111	Bulldozer Operator	7
HEO	125	Special Problems	3
		Total Credits	10

### Front-End Loader Operator - 4902023039

		•	
		(Offered at HZC, SEC)	
HEO	105	Utility Tractor Loader Operator	4
HEO	125	Special Problems	3
		Total Credits	7

# Motor-Grader Operator - 4902023049

### Museum Management - 5401053019

101

104

230

232

234

236

ENG

HIM

HIM

HIM

HIM

HIM

Hydraulic Excavator Operator - 4902023059	
Total Credits	10
Special Problems	3
Motor-grader Operator	7
(Offered at HZC, SEC)	
	Motor-grader Operator Special Problems Total Credits

HFO

HEO

HEO

HEO

HEO

106

125

#### (Offered at SEC) Available Completely Online

	Total Credits	10
	Hydraulic Excavator Operator - 4902023059	
	(Offered at SEC)	
100	Heavy Equipment Operations I**	12
115	Hydraulic Excavator Operator	7
125	Special Problems 1	
	Total Credits	22

#### Museum Studies: Collections Care & Management............. 3 Museum Studies: Conservation and Preservation................ 3

# **Historic Information Management**

### Records Management - 5401053039

#### **Archival Management**

(Offered at SEC) Available Completely Online

Trains individuals to arrange, preserve, and present archival materials for use, and instructs students in the basics of working in either public or private archives. The program will also provide students with a context for making decisions about the worthiness of material for archiving. The program is designed for students seeking entry into the field of archival management and those already working in the field.

ENG	101	Writing I	3
		Heritage/Humanities	3
		Social/Behavioral Sciences	3
OST	160	Records and Database Management	3
HIM	106	Records Management: Characteristics & Overview	
HIM	250	Records Inventory & Analysis	3
HIM	252	Electronic Records Management	3
HIM	254	Records Reproduction & Imaging Systems	
		Total 24	

#### Museum Management

# **Historic Preservation Technology**

Prepares students for entry level work in the museum field and provides technical training for persons working in museums. Among the topics addressed by the courses are: the basics of collection development and cataloging, exhibit design, work with the public, and the use of computer technology in the museum environment.

The program will focus on the study of preservation theory coupled with hands-on skill training to meet the needs of entry level individuals and prospective employers involved in the historic preservation field. Researching the background of structures designated as historic properties will enhance the learning experience while applying the Secretary of the Interior's standards for the rehabilitation of historic structures.

### **Records Management**

#### **Certificates**

Focuses on training for persons responsible for the efficient management of an organization's recorded information. Students will learn to identify the content, value and importance of recorded information and through a comprehensive understanding of the "information life cycle" learn to organize, manage and deliver that recorded information in a timely and efficient manner.

#### Historic Preservation Technology – 3012013019 (Offered at SEC, WKC)

#### **Certificates**

		$\mathcal{L}$
BRX	220	Blueprint Reading for Construction
ACH	120	Theory and History of Architecture I
HIS	240	History of Kentucky
HPT	100	Introduction to Historic Preservation
HPT	101	Introduction to Historic Preservation Lab
ISX	100	Industrial Safety OR
ISX	101	Introduction to Industrial Safety(3)
		Technical Electives*8

25

Archival Management - 5401053029
(Offered at SEC)

\*Technical Electives: Select a minimum of 8 credit hours

**Total** 

		, D	
		Available Completely Online	
ENG	101	Writing I	. 3
		Heritage/Humanities	. 3
		Social/Behavioral Sciences	. 3
HIM	102	Archives Studies: Characteristics & Overview	. 3
HIM	210	Archives Studies: Appraisal & Accessioning	. 3
HIM	212	Archives Studies: Arrangement & Description	. 3
HIM	214	Archives Studies: Preservation & Conservation	. 3
HIM	216	Archives Studies: Automation & Electronic Records	. 3
		Total	24

HPT	120	Traditional Woodworking
HPT	200	Masonry Repointing and Repair2
HPT	202	Window Restoration and Repair2
HPT	204	Roof Restoration and Repair
HPT	298	Field Experience Practicum

# Homeland Security/ Emergency Management

The degree program includes an overview of homeland security, emergency management and first responder agencies, including but not limited to: Fire Departments, Law Enforcement, and Medical Services and how these agencies function within the National Incident Management System.

#### Fire Science Track:

This degree track includes fire department organization, fire behavior, firefighter safety, personal protective equipment, portable fire extinguishers, fire hose, appliance and streams.

#### **Criminal Justice Track:**

This criminal justice degree track prepares the student for entry into the field of police work and related occupations. Criminal justice vocations have evolved from jobs with minimal requirements to jobs requiring complex knowledge and skills. This curriculum gives the student theory, principles, and techniques employed by criminal justice agencies and police units. The study of the law as it relates to criminal justice agencies, human behavior, government, and communications along with specialized course work comprise the curriculum.

#### **Security Management Track:**

The Security Management Coordinator degree track provides a comprehensive overview of physical security policies, procedures and techniques. Topics covered are perimeter protection, intrusion detection, access control, CCTV, security design and surveys, contingency planning, and acts of violence.

#### Homeland Security/Emergency Management Specialist Certificate:

This certificate program includes an overview of homeland security, emergency management and first responder agencies, including but not limited to: fire departments, law enforcement and emergency medical services and how these agencies function within the National Incident Management System.

Progression in the program is contingent upon achievement of a grade of "C" or better in each technical course for all program tracks above

### Associate in Applied Science

#### Homeland Security/Emergency Management - 4399997019

(Offered at BLC, WKC)

#### **General Education Core**

Written Communication	3
Quantitative Reasoning	3
Natural Sciences	
Social/Behavioral Sciences	3
Heritage/Humanities	3
Oral Communications	
General Education Core Credit Hour Subtotal	18

LSI

HSM

AHS

BAS

FRS

FRS

146

225

140

212

101

2061

#### **Technical Core or Support Courses**

		1 1	
		Computer/Digital Literacy	0-3
HSM	100	Introduction to Homeland Security	3
HSM	110	Introduction to Emergency Management	3
CRJ	110	Principles of Asset Protection AND	
CRJ	210	Physical Security Technology & Systems OR	3
LSI	120	Comprehensive Security Specialist AND	(4)
LSI	146	Crisis Management/Contingency Planning	(2)
HSM	225	Issues and Ethics in Homeland Security	3
		· · · · · · · · · · · · · · · · · · ·	

AHS BAS FRS FRS	140 212 101 2061	Introduction to Public and Community Health Introduction to Financial Management Introduction to Fire Science Emergency Medical Technician	3
NOTE:	Computer	/Digital Literacy must be demonstrated either by competency exam or	
		omputer/digital literacy course.	
		Technical Core Subtotal 30-3	3
		Fire Science Track - 439999701	
FRS	102	(Offered at BLC,WKC) Firefighter Basic Skills I	2
FRS	102	Firefighters Basic Skills II	3
FRS	104	Firefighter Intermediate Skills I	
FRS	105	Firefighters Intermediate Skills II	
FRS	201	Firefighters Advanced Skills I	
		Fire Science Track Subtotal	5
		Fire Science Track Total Degree Requirements 63-6	6
		Criminal Justice Track - 439999702  (Offered at BLC, WKC)	
CRJ	100	Introduction to Criminal Justice	3
CRĴ	204	Criminal Investigations	3
CRJ	215	Introduction to Law Enforcement	3
CRJ	217	Criminal Procedures	3
CRJ	279	Terrorism and Political Violence	
		Criminal Justice Track Subtotal	5
		Criminal Justice Track Total Degree Requirements 63-6	66
		Security Management Track - 439999703 (Offered at BLC, WKC)	
LSI	140	Managing Terrorism & Other Crises	1
LSI	150	Professional Locksmithing	4
A mii	nimum o	of 3 credit hours must be taken from this list of	
electi		or a credit nours must be taken from this list or	
LSI	130	GSA: Locks, Vaults & Containers	4
LSI	131	GSA: Locks, Vaults & Containers Certified Inspector	
LSI	151	Training	
LSI	151	Basic Safe Penetration	
LSI	153	Safe Lock Servicing – Mechanical and Electronic	
LSI	160	Fundamentals of Electricity	
LSI	170	Electronic Access Control	
LSI	195	Tactical Lock (restricted enrollment)  Security ManagementTrack Subtotal 1	8 . <b>5</b>
		Security Management Track Total Degree Requirements 63-6	6
			,,,
		Certificate	
Hon	neland Se	ecurity/Emergency Management Specialist - 4399993019	
HSM	100	(Offered at JFC,WKC) Introduction to Homeland Security	3
HSM	110	Introduction to Homeland Security	
CRJ	110	Principles of Asset Protection OR	
CRJ	210	Physical Security Technology & Systems OR	
LSI	120	Comprehensive Security Specialist(4	
1.01	146	Crisis Management / Contingency Planning	) \

Crisis Management/Contingency Planning ......(2)

**HSEM Specialist Certificate** 

# Horticulture

The Horticulture program provides students with knowledge and skills needed for careers in greenhouse, nursery, and landscape operations. Students acquire practical experience in turf and landscape maintenance, design, plant production, and business management.

### Associate in Applied Science

#### Horticulture - 0106017019

(Offered at JFC, OWC)

		(Official di fi e, on e)	
Gene	ral Edu	ucation:	
		Quantitative Reasoning	
		Natural Sciences	
		Heritage/Humanities	
		Social/Behavioral Sciences	
		Written Communication	
		Subtotal 15	
Tech	nical C	ore:	
		Computer/Digital Literacy * 0-3	
HRT	110	Nursery Management	
HRT	120	Turf Management OR4	

HRT	120	Turf Management OR	4
HRT	160	Retail Floral Design AND	(4)
HRT	161	Retail Floral Design Lab	(2)
HRT	130	Landscape Maintenance	3
HRT	131	Landscape Maintenance Lab	
HRT	150	Horticulture Business Management	3
HRT	210	Landscape Design	4
HRT	240	Greenhouse Management	4
HRT	241	Greenhouse Management Lab	
		Subtotal	26-31

<sup>\*</sup> Must meet computer/digital literacy requirement.

#### Science Track - 010601701

 $(Offered\ at\ JFC,\ OWC)$ 

		General Education Natural Sciences Course	3
COE	199	Cooperative Education OR	3
COED	198	Practicum	(3)
HRT	104	Introduction to Herbaceous Plants	4
HRT	108	Introduction to Woody Plants	4
		Electives (Horticulture Course List including COE198	8
		Subtotal	22
		Total Science Track Credits	63-68

#### **Business Track - 010601702**

		(Offered at JFC, OWC)	
COE	199	Cooperative Education OR	2
COED	198	Practicum	(2)
ACT	101	Fundamentals of Accounting I	3
BAS	200	Small Business Management	
BMO	170	Introduction to Business Management	3
OST	215	Office Procedures	
BAS	267	Introduction to Business Law	3
		Electives (Horticulture Course List including COE198)	3
		Subtotal	20
		Total Business Track Credits	61-66

### Diploma

#### Landscape Technology - 0106014009

(Offered at BSC, JFC, OWC)

Area 1=	Written Communication, Oral Communications,
	or Heritage/Humanities,
Area 2=	Social/Behavioral Sciences, Natural Sciences, or
	Quantitative Reasoning
	Subtotal 6

#### Technical:

**General Education:** 

		Computer/Digital Literacy*	3
COE	199	Cooperative Education OR	
COED	198	Practicum	(6)
HRT	104	Introduction to Herbaceous Plants	4
HRT	108	Introduction to Woody Plants	4
HRT	120	Turf Management OR	4
HRT	160	Retail Floral Design AND	(4)
HRT	161	Retail Floral Design Lab	(2)
HRT	130	Landscape Maintenance	3
HRT	131	Landscape Maintenance Lab	
HRT	210	Landscape Design	4
		Subtotal	30-32
		Total	36-38

<sup>\*</sup> If computer/digital literacy is met by the competency exam, an additional 3 credit hours of general education or program elective must be taken.

#### Ornamental Horticulture - 0106014029

(Offered at BSC, JFC, MYC, OWC)

#### General Education:

Area 1=	Written Communication, Oral Communications, or	
	Heritage/Humanities	3
	Social/Behavioral Sciences, Natural Sciences or	
	Quantitative Reasoning	3
	Subtotal	6

<sup>\*</sup> If computer/digital literacy is met by the competency exam, an additional 3 credit hours of general education or program elective must be taken.

#### Technical:

HRT

HRT

240

241

**Total Credits** 

COE	199	Cooperative Education OR	3
COED	198	Practicum	
HRT	104	Introduction to Herbaceous Plants	4
HRT	108	Introduction to Woody Plants	4
HRT	110	Nursery Management	4
HRT	120	Turf Management OR	4
HRT	160	Retail Floral Design AND	. (4)
HRT	161	Retail Floral Design Lab	
HRT	130	Landscape Maintenance	
HRT	131	Landscape Maintenance Lab	2
HRT	150	Horticulture Business Management	3
HRT	210	Landscape Design	4
HRT	240	Greenhouse Management	4
HRT	241	Greenhouse Management Lab	2
COED	198	Practicum	
		Subtotal 48	8-50
		Total 54	4-56

#### **Certificates**

#### Greenhouse Operations - 0106013029

 (Offered at BSC, JFC, MYC, OWC)

 Greenhouse Management
 4

 Greenhouse Management Lab
 2

 Electives (Horticulture Course List)
 6

		Greenhouse Production – 10613019 (Offered at OWC)			Human Services
HRT HRT HRT	104 240 241	Introduction to Herbaceous Plants	cies an menta studen emplo	d instituti l health se t to devel yment. Ir	repares individuals for entry level positions in agen- ions which provide social, community, educational and ervices. The curriculum provides an opportunity for the op the knowledge and skills necessary for entry level according to the curriculum is a core of human services
		Horticulture Sales - 0106013119 (Offered at BSC, JFC, MYC, OWC)	human	services	education courses, and technical courses with a specific emphasis. Application of human services principles and I through a clinical experience in an appropriate setting.
HRT HRT HRT	108 104 120	Introduction to Woody Plants OR	Upon	completic	on of the program the graduate is prepared to seek emious areas which may include child care facilities, mental
HRT HRT HRT HRT	160 161 130 150	Retail Floral Design AND       .(4)         Retail Floral Design Lab       .(2)         Landscape Maintenance       .3         Horticulture Business Management       .3	health institu	settings, o	chemical dependency settings, hospitals, educational rectional facilities, geriatric settings, child and youth censervice agencies.
		Electives (Horticulture Course List)			Associate in Applied Science
		Landscape Installation - 0106013049		(Offered	Human Services- 4407017000 at BLC, BSC, ELC, GTW, HPC, HZC, JFC, MDC, OWC)
HRT	108	(Offered at BSC, JFC, MYC, OWC) Introduction to Woody Plants OR	Como		
HRT	104	Introduction to Woody Flants OK	COM	ral Educa 181	
HRT	130	Landscape Maintenance	COM	252	Basic Public Speaking OR
HRT	131	Landscape Maintenance Lab	ENG	101	Writing I
		Electives (Horticulture Course List)	ENG	102	Writing II
		Total Credits 12	PSY	110	General Psychology
			PSY	223	Developmental Psychology
		Landscape Planning - 0106013059	SOC	101	Introduction to Sociology
		(Offered at BSC, JFC, MYC, OWC)			Second Sociology course
HRT	104	Introduction to Herbaceous Plants			Heritage/Humanities course
HRT	108	Introduction to Woody Plants			Quantitative Reasoning course
HRT	130	Landscape Maintenance			Natural Sciences
HRT	131	Landscape Maintenance Lab			Subtotal 30
HRT	210	Landscape Design4	Techr	nical Cor	·p•
		Electives (Horticulture Course List)	CIS	100	Introduction to Computers OR
		Total Credits 22	CS	101	Introduction to Computing I(3)
			HMS	101	Human Services Survey
		Lawn Maintenance - 0106013069	HMS	102	Values of Human Services in a Contemporary Society 3
			HMS	103	Theories and Techniques in Human Services
LIDT	120	(Offered at BSC, JFC, MYC, OWC) Turf Management	HMS	104	Group Dynamics for Human Services
HRT HRT	120 130	Landscape Maintenance	HMS	250	Clinical Practice in Human Services OR
HRT	131	Landscape Maintenance Lab	COE	199	Cooperative Education(4)
		Electives (Horticulture Course List)			Technical courses
		Total Credits 10			Electives 9
					Subtotal 34
		Nursery Production - 0106013079			Total Credits 64
		(Offered at ASC, BSC, JFC, MYC, OWC)	Techr	nical Cou	urses: Choose six hours 6
HRT	108	Introduction to Woody Plants4	CRJ	101	Introduction to Criminal Justice
HRT	110	Nursery Management	CRJ	208	Delinquency and the Juvenile Justice System
HRT	240	Greenhouse Management	EDP	203	Teaching Exceptional Learners in Regular Classrooms 3
		Electives (Horticulture Course List including COE198) 8	FAM	252	Introduction to Family Science
		Total Credits 20	FAM	253	Human Sexuality: Development, Behavior and Attitudes 3
		Nursery Operations - 0106013089	HMS HS	210 225	Drugs, Society, and Human Behavior
		* *			with Disabilities (Course Inactive)
Прт	109	(Offered at BSC, JFC, MYC, OWC) Introduction to Woody Plants	HMS/SWk		Dynamics of Human Behavior
HRT HRT	108 110	Introduction to Woody Plants			Introduction to Addictions
111/1	110	Nursery Management			Crisis Intervention
		Total Credits 13	HMS/SWK		Cultural Diversity in Human Services
		13			Teaching Persons with Mental Retardation
			HMS HMS	265 299	Working with Disabilities in Human Services
			1 1171()	-//	1-3

IEC	130	Early Childhood Development
IEC	200	Child Guidance
MNA	100	Medicaid Nurse Aide OR
NAA	100	Nursing Assistant Skills I(3)
PSY	180	Human Relations
PSY	185	Human Potential
PSY	230	Psychosocial Aspects of Death and Dying
SED	110	Orientation to Interpreting for the Deaf
SED	101	American Sign Language I
SED	102	American Sign Language II
SOC	220	The Community
SWK	124	Introduction to Social Services
SWK	222	Development of Social Welfare
SWK	180	Introduction to Gerontology
SWK	269	Juvenile Delinquency
SWK	270	Corrections
SWK	275	The Family
SWK	276	Criminology
SWK	280	Methods of Working with the Aged
SWK	281	Psychology of Aging
Murr	av State	<b>University Courses:</b>
SWK	120	Group Preparation and Selection for Foster and Adoptive
		Parents
SWK	121	Child Sexual Abuse for Foster and Adoptive Parents 2
Easter	V	*
		ucky University Courses:
CDR	106	Foundations of Youth Work 3
COR	423*	Reclaiming Our Prodigal Sons and Daughters
COR	423*	Life Space Crisis Intervention
* Specia	l'Iopics cou	arse at EKU; different section numbers indicate different topic content
Easte	rn Kenti	ucky University Courses:
SWK	106	Food Benefits
		Certificates
		Direct Cuppert Work 4407012020
		Direct Support Work - 4407013039
	(Offered	at BLC, BSC, ELC, HPC, HZC, JFC, OWC, MDC, SEC)
		Available Completely Online
HMS	102	Values of Human Services in a Contemporary Society 3
HMS	265	Working with Disabilities in Human Services
MNA	100	Medicaid Nurse Aide OR
NAA	100	Nursing Assistant Skills I(3)
SWK	275	The Family OR
FAM	252	Introduction of Family Science(3)
Electi	ves – ch	oose one course from the following list:
HMS/S		235/250 Teaching Persons with Mental Retardation 3
SWK	180	Introduction to Gerontology(3)
PSY	230	Psychosocial Aspects of Death and Dying(3)
HMS/S	SWK	200
		(3)

# **Industrial Chemical Technology**

15

**Total Credits** 

This program is designed to prepare its graduates for entry-level positions in the areas of process operators, process technicians, and chemical technicians. Basic knowledge in the areas of chemical unit operations; organic, analytical and inorganic chemistry; mathematics; policies and practices in areas of environment, health and safety; process systems and control; and statistics for quality help the graduate to understand the operation of modern chemical industries.

# Associate in Applied Science

#### Industrial Chemical Technology - 4103017019

(Offered at JFC,WKC)

**General Education** 

ENG	101	Writing I	3
CHE	140	Introductory General Chemistry	3
CHE	145	Introductory General Chemistry Lab	1
MAT	126	Technical Algebra and Trigonometry OR	
		Higher Level Quantitative Reasoning Course	3
		Social/Behavioral Sciences	3
		Heritage/Humanities	3
		General Education	16

#### Process Technician Track - 4103017019

(Offered at JFC,WKC)

Techi	nical co	ore:
AET	110	Introduction to Circuit Analysis4
CHE	150	Introduction to Organic and Biological Chemistry 3
CHE	155	Introduction to Organic and Biological Chemistry Lab 1
GEN	276	Employment and Professional Skills
ICT	185	Introduction to Industrial Chemical Technology
ICT	190	Chemical Processes – Mass & Energy Balances
ICT	220	Unit Operations I
ICT	230	Health, Safety, & Environmental Practices
ICT	240	Unit Operations II
ICT	250	Chemical Process Systems and Control
ICT	280	Capstone in Industrial Chemical Technology
IMT	140	Industrial Mechanics
IMT	141	Industrial Mechanics Lab
ITE	250	Team Dynamics and Problem Solving
PHY	171	Applied Physics OR4
PHY	152	Introductory Physics II AND(3)
PHY	162	Introductory Physics II Lab(1)
OMS	101	Introduction to Quality Systems
TEC	200	Technical Communications
		Computer/Digital Literacy
ELT	295	Independent Problems OR
COE	199	Co-operative Education(1-4)
		Technical Core Total 44-50
		Total 60-66

# **Information Management and Design**

The Information Management & Design program prepares students for careers in various industries utilizing cutting-edge technology within graphic design, web design, project management and library professions. Students will specialize their degree from a choice of four tracks.

The Graphic Design track provides the concepts and skills needed to create and produce design projects such as brochures, flyers, newsletters, logos, product packaging, photo restorations and manipulations, multimedia presentations, simple illustrations, and web sites using industry-standard techniques and graphic design applications.

The Web Design track provides the concepts and skills needed to create and produce web sites using industry-standard techniques using graphic and web design, and video editing applications. The Web Design track graduates will have the ability to create and maintain professional sites and also be capable of working with other web professionals such as programmers, network administrators and database administrators as well as interfacing with management and clients.

The Project Management track focuses on the management of timelimited operations in terms of four constraints: time, cost, resources and specification. Students learn to identify priorities, organize assignments and deploy the necessary resources to accomplish projects on time and within specified budgets.

The Library and Information Technology track prepares graduates for paraprofessional library work.

The courses within the Graphic and Web Design options will assist with preparation for Adobe Certifications and the Certified Internet Webmaster (CIW) certification exam. The Library and Information Technology option courses may be used to meet Kentucky public library certification requirements.

The IMD program also offers two certificates within the web and graphic design options. The web and graphic design certificates provide up-to-date training in current industry-standard software and trends for practitioners in the fields as well as introductory education for beginning students. In addition, the IMD program offers a certificate in Digital Video for students interested in film editing and cinematic arts.

# Associate in Applied Science

Information	Managemen	t and	d Design -	- 1108017019
	(0.00		D = (C)	

(Offered at BLC)

ENG	101	Writing I*	3
ENG	102	Writing II*	
		Quantitative Reasoning Course*	3
		Natural Sciences Course*	3
		Heritage/Humanities Course*	3
		Social/Behavioral Sciences Course*	3
		Subtotal	18

IMD	100	Introduction to Information Systems	3
IMD	133	Beginning Web Design	3
IMD	126	Introduction to Desktop Publishing	
IMD	210	Microsoft Office Applications	3
IMD	270	Professional Practices	3
IMD	275	Information Management & Communications	3
COE	199	Coop Education OR	3

Internship .....(3)

ENG

Subtotal (General Education & Core Content)

\*Satisfies General Education requirement for the AAS degree

**General Education Courses** 

**Core Content:** 

271

IMD

### Project Management Track-- 110801701

		(Offered at BLC)	
IMD	212	Advanced Microsoft Office Applications	3
IMD	235	Advanced Work Processing	3
IMD	260	Integrated Project Management	3
IMD	265	Project Management for Information	
		Management & Business	3
IMD	267	Microsoft Project Software	3
		Accounting Course	3
		Project Management Track Courses	
Choo	se froi	m Project ManagementTrack Courses:	
		Managerial Accounting	3

ACC	202	Managerial Accounting	3
MGT	267	Introduction to Business Law	3
MGT	274	Human Resource Management	3
MGT	288	Self-Management	3
ECO	202	Principles of Macroeconomics	3
ENG	203	Business Writing	3
		C	

IMD	114	Information Literacy	3
IMD	115	Introduction to Graphic Design	
IMD	127	Vector Design with Adobe Illustrator	
IMD	128	Raster Design with Adobe Photoshop	
IMD	175	Web Usability Design	
IMD	180	Intermediate Web Design	3
IMD	226	Advanced Desktop Publishing	
IMD	230	Advanced Web Design	3
IMD	232	Web Design with Adobe Dreamweaver	3
IMD	240	Multimedia Development for the Web	
IMD	250	Digital Video Editing I	
IMD	290	Photography	
IMD	294	Seminar in Information Management & Design Technologies	s. 3
IMD	299	Selected Topics in Information Management & Design	3
		Other Project Management Courses Approved	
		by Program Coordinator	1-3
		Other Computer & Information Technologies, Business,	
		Communication, Fine Arts or other Track appropriate cours	ses
		approved by Program Coordinator	1-3
		Subtotal	24
		Total	63

#### Graphic Design Track - 110801702 (Offered at BLC)

IMD	115	Introduction to Graphic Design
IMD	127	Vector Design with Adobe Illustrator
IMD	128	Raster Design with Adobe Photoshop
IMD	180	Intermediate Web Design
IMD	226	Advanced Desktop Publishing
IMD	280	Portfolio Practicum: Graphic Design
IMD	277	Typography
IMD	228	Advanced Photoshop OR
IMD	229	Advanced Illustrator(3)
		Graphic Design Track Courses

		Graphic Design Track Courses	. 3
Choo	se from	Graphic Design Track Courses:	
IMD	212	Advanced Microsoft Office Applications	. 3
IMD	230	Advanced Web Design	. 3
IMD	232	Web Design with Adobe Dreamweaver	. 3
IMD	240	Multimedia Development for the Web	. 3
IMD	250	Digital Video Editing I	. 3
IMD	260	Integrated Project Management	. 3
IMD	290	Photography	
IMD	228	Advanced Photoshop (if not taken as core requirement) OR.	. 3
IMD	229	Advanced Illustrator (if not taken as core requirement)	. 3
IMD	294	Seminar in Information Management & Design Technologies.	. 3
IMD	299	Selected Topics in Information Management & Design	
MGT	282	Principles of Marketing	. 3

Total	66
Subtotal	27
appropriate courses approved by Program Coordinator	1-3
Business, Communication, Fine Arts or other track	
Other Computer & Information Technologies, Architectura	l,
Approved by Program Coordinator	1-3
Other Graphic Design Courses	

#### Library Information Technology Track - 110801704

(Offered at BLC)
Available Completely Online ction to Reference Services...

LIT	115	Introduction to Reference Services
LIT	124	Library Administration
LIT	132	Library Technical Services
LIT	243	Library Services for Children OR
LIT	245	Library Services for Young Adults OR(3)
LIT	247	Library Services for Adults(3)
		Library & Information Technology Track Courses

Cnoc	ose a 10	tal of 12 nours from the following:	Keqi	iirea:		
LIT	130	Web Publishing for Public Libraries	LIT	115	Introduction to Reference Services	3
LIT	243	Library Services for Children **	IMD	114	Information Literacy	3
LIT	245	Library Services for Young Adults **	Stud	ents wi	ll select one course from each of the following	nσ
LIT	247	Library Services for Adults **			if select one course if our each of the following	18
LIT	285	History of Libraries	grou	ps:		
LIT	299	Selected Topics in Library Information Management	1. Lil	orary Pi	rocedures	
		(may be repeated for up to 6 hours)1-3	LIT	124	Library Administration OR	3
** Cou	reo can be	e used as LIT track course if not utilized as LIT track core course	LIT	132	Library Technical Services	(3)
·· Cou	ii se caii be	Subtotal 24	2 1 (1	orary Se	prvices	
		Subtour	LIT	243	Library Services for Children OR	3
		Total 63	LIT	245	Library Services for Young Adults OR	
		Wah Dasiers 110001700	LIT LIT	247	Library Services for Adults OR	
		Web Design — 110801703		248	Library Services for Preschool Children OR	
		(Offered at BLC)	LIT	280	Genealogy Services in Libraries OR	(3)
IMD	180	Intermediate Web Design	3. Lil	orary In	formation Technology Elective	
IMD	230	Advanced Web Design		•	LIT elective: any LIT course above LIT 115	3
IMD	232	Web Design with Adobe Dreamweaver			Total	15
IMD	240	Multimedia Development for the Web				
IMD	250	Digital Video Editing I			Overthis Design 1100010000	
IMD	292	Portfolio Practicum: Web Design			Graphic Design – 1108013029	
		Web Design Track Courses6			(Offered at BLC)	
Cl	C		IMD	115	Introduction to Graphic Design	3
		m Web Design Track Courses:	IMD	133	Beginning Web Design	
IMD	115	Introduction to Graphic Design	IMD	126	Introduction to Desktop Publishing	3
IMD	127	Vector Design with Adobe Illustrator	IMD	127	Vector Design with Adobe Illustrator	
IMD	128	Raster Design with Adobe Photoshop	IMD	128	Raster Design with Adobe Photoshop	
IMD	160	Introduction to E-Commerce	IMD	226	Advanced Desktop Publishing	
IMD	175	Web Usability Design			Total	18
IMD	212	Advanced Microsoft Office Applications				
IMD	260	Integrated Project Management			W I D : 4400040000	
IMD	265	Project Management for Information Management			Web Design — 1108013039	
		& Business			(Offered at BLC)	
IMD	290	Photography 3	IMD	133	Beginning Web Design	3
IMD	294	Seminar in Information Management & Design Technologies 3	IMD	180	Intermediate Web Design	
CIT	150	Internet Technologies	IMD	232	Web Design with Adobe Dreamweaver	
CIT	120	Computational Thinking	IMD	240	Multimedia Development for the Web	
CIT	140	JavaScript I	IMD	250	Digital Video Editing I	
		Computer Programming Course Approved by Program			Total	15
		Coordinator				
		Other Computer & Information Technologies, Architectural,			DI II IIII 4400400	
		Business, Communication, Fine Arts or other Track			Digital Video — 1108013049	
		Appropriate Courses Approved by Program Coordinator 1-3			(Offered at BLC)	
		Other Web or Graphic Design Courses	IMD	128	Raster Design with Adobe Photoshop	3
		Approved by Program Coordinator 1-3	IMD	250	Digital Video Editing I	
		Subtotal 24	IMD	255	Digital Video Editing II	
		m . 1	IMD	258	Visual Effects for Video	
		Total 63	2		Total	12

### Certificate

### Library Information Technology - 1108013019

(Offered at BLC)

The certificate in Library Information Technology prepares students for paraprofessional jobs in libraries. Upon completion of the academic certificate, students will be able to: perform basic library reference services using print and online sources, plan and produce library services and programs, demonstrate information literacy skills, describe the role of libraries as agencies for information services. Courses taken for the Certificate in Library Information Technology may be used for the Associate of Applied Science degree in Information Management and Design, Library Information Technology track and as electives for the AA/AS degrees. All Library Information Technology courses are web-based distance courses.

The Certificate in Library Information Technology requires 15 credit hours.

# Instructional Design and Learning Technology

The Instructional Design and Learning Technology program is designed to provide individuals with the knowledge and skills required to be successful in an entry level instructional design position in any field. The core curriculum includes a general education component essential to a collegiate education and a technical component that provides an introduction to productivity software, instruction/curriculum/training design, facilitation skills, multimedia design and development, and human performance consulting. Program participants can select career tracks for their degree that align with their career goals and interests. Instructional Design, eLearning Developer, and Graphic Design for Instruction are available tracks for the program. Students may also choose to customize their track.

60

The Instructional Design track focuses on instructional systems design through the use of the ADDIE model. This track emphasizes curriculum design and development, using Bloom's Taxonomy of Learning Domains, to develop and evaluate models to support competency-based training.

The eLearning Developer track focuses on the use of eLearning development and rapid authoring tools in creating engaging web-based learning/training activities. This track emphasizes SCORM compliance for eLearning, the use of programming languages for web-development, and audio/video production in the development of eLearning courses and learning activities.

The Graphic Design for Instruction track focuses on the graphic design of communications and instructional content. This track emphasizes the design of education and training materials through the use of client software applications and other graphic and animation tools for documents, presentations, and mobile devices. Students in this track will also be required to complete a project to apply their accumulated knowledge of design software and fundamental principles through real-life scenarios.

The Custom track provides flexibility for the dynamic nature of knowledge-based jobs and student career goals. Students may choose courses to complete their track requirements from technical courses within the Instructional Design and Learning Technology program or may choose a blend of courses from the Education, Visual Communication, or Computer Information Technology programs.

Documentation of digital literacy as defined by KCTCS is required prior to enrolling in the first Instructional Design and Learning Technology

## Associate in Applied Science

#### Instructional Design and Learning Technology— 1305017019 (Offered at GTW)

101 ENG ENG 102 105 MAT MAT 116 Technical Mathematics OR.....(3) MAT 150 College Algebra .....(3) COM 252 Total General Education Requirements

Technical Core Requirements				
IDL	101	Introduction to Instructional Design and Learning Tech	3	
CIT	130	Productivity Software	3	
IDL	110	Instructional Design I	3	
IDL	120	Facilitation Skills OR	3	
IDL	123	Multimedia Design and Development	(3)	
IDL	210	Instructional Design II		
IDL	220	Business Management for Instructional Design and		
		Learning Technology	3	
IDL	240	Human Performance Consulting		
IDL	290	Experiential Learning in Instructional Design	3	
IDL	299	Instructional Design Capstone	3	
		Subtotal	27	
		Total Core Classes plus General Education	48	

#### Instructional Design Track – 130501701

(Offered at GTW) IDL 130 IDL 230 IDL 250 IDL 260 Total Credit Hours for Instructional Design Track 60 eLearning Developer Track – 130501702 (Offered at GTW) IDL 147 IDL 207 eLearning Development II: HTML, CSS and Java Script...... 3 IDL 217 IDL 227 eLearning Development III: Advanced Authoring Tools ...... 3 Total Credit Hours for eLearning Developer Track 60

#### Graphic Design for Instruction Track – 130501703

(Offered at GTW) IDL 113 Introduction of Visual Communications for Learning ......... 3 203 IDL 213 IDL. IDI. 223 

#### Custom Track – 130501704

(Offered at GTW)

Must select 4 courses from above tracks, or select courses from Education, Visual Communication or Computer & Information Technologies programs. **Total Credit Hours for Custom Track** 

#### **Certificates**

#### Foundations of Instructional Design – 1305013029

(Offered at GTW) **ENG** 101 ENG 102 COM 252 101 IDI. Introduction to Instructional Design and Learning Tech ...... 3 CIT 130 110 IDL 123 210 IDL 

### Advanced Instructional Design – 1305013049

(Offered at GTW) IDL 130 IDL 220 Business and Management for IDL 230 IDL. IDL 250 IDL 260 

#### Instructional Facilitation –1305013039

(Offered at GTW) ENG COM252 130 CIT IDI. 101 Introduction to Instructional Design and Learning Tech ...... 3 IDL 110 IDL 120 **Total** 

		eLearning Developer – 1305013019			Natural Sciences	. 3
		(Offered at GTW)			Oral Communications	. 3
ENG	101	Writing I			Subtotal	18
COM	252	Introduction to Interpersonal Communications 3	Tech	nical (	Courses:	
IDL	147	eLearning Development I: Rapid Authoring Tools	reem	incur c	Computer/Digital literacy	. 3
IDL IDL	207 217	eLearning Development II: HTML, CSS and Java Script 3 Multimedia Development	IET	102	Preventive Maintenance	. 2
IDL	227	eLearning Development III: Advanced Authoring Tools 3	IET	104	Blueprint Reading/Schematics	
122		Total 18	IET	107	Basic Electricity/Electronics	
			IET IET	108 109	Mechanical Drive Systems Safety	
		Graphic Design of Instruction – 1305013059	IET	110	Welding and Fabrication	
		(Offered at GTW)	IET	120	Machine Tool Operations	
ENG	101	Writing I	IET	201	Electrohydraulics/Pneumatics	. 6
COM	252	Introduction to Interpersonal Communications	IET	203	Programmable Logic Controllers	
IDL	113	Introduction of Visual Communications for Learning 3	IET IET	205 206	Robot Maintenance.	
IDL	123	Multimedia Design and Development	IE I	200	Controls and Instrumentation	. 5 46
IDL	203	Designing in Client Applications				
IDL IDL	213 223	Designing in Graphic Applications			Total Credits	64
IDL	223	Total 21			Dinlomo	
					Diploma	
		Incurance Dick Management		li	ntegrated Engineering Technology – 1442014019	
		Insurance Risk Management			(Offered at BLC)	
Th - C	د: ۲:	t in In in In in In	Area 1	=	\ \( \mathcal{D} \)	
		te program in Insurance and Risk Management is a four- edit hour) credential. Students will learn the foundations of			Written/Oral Communications, or Heritage/Humanities	. 3
		oduction and multiple lines insurance production. Students	Area 2		T 1 · 1A1 1 IT · · · OD	2
		ter the fundamentals of operating an agency and managing	MAT	126	Technical Algebra and Trigonometry OR	
		eters of this certificate program will be eligible to sit for the			Subtotal	6
		edited Advisor in Insurance (AAI) Certification exam.				
		, ,	Tech	nical C	Courses:	2
		Certificate	IET	102	Computer/Digital literacy  Preventive Maintenance	
			IET	104	Blueprint Reading/Schematics	
		Insurance and Risk Management – 5217013019	IET	107	Basic Electricity/Electronics	
		(Offered at JFC)	IET	108	Mechanical Drive Systems	
INS	100	Introduction to Insurance and Risk Management 3	IET	109	Safety	
INS	181	Foundations of Insurance Production	IET	110	Welding and Fabrication	. 4
INS INS	182 183	Multiple Lines Insurance Production	IET IET	120 201	Machine Tool Operations Electrohydraulics/Pneumatics	
1113	105	Total Credits 12	IET	203	Programmable Logic Controllers	
			IET	205	Robot Maintenance	
			IET	206	Controls and Instrumentation	
	Inte	grated Engineering Technology	COE	199	Cooperative Education OR	
		, and a	COED	198	Practicum ( Subtotal	(1) <b>47</b>
The Ir	ntegrate	ed Engineering Technology Program offers students the				+/
		to build a career maintaining integrated manufacturing sys-			Total Credits	53
		n advanced manufacturing, with an emphasis on automotive			Cautificata	
		g. The program leads students through a mechatronics ap-			Certificate	
		intaining and troubleshooting highly-automated, complex g systems that include programmable logic controllers,			Electrical Engineering Technology – 1442013029	
		us types of drives, sensors, photoeyes, and electrohydraulics			(Offered at BLC)	
		neumatics. Graduates will be able to work as maintenance	IET	107	Basic Electricity/Electronics	. 3
		n most manufacturing settings, particularly manufacturing	IET	203	Programmable Logic Controllers	
		ed to the automotive industry.	IET	205	Robot Maintenance	
`		· · · · · · · · · · · · · · · · · · ·	IET	206	Controls and Instrumentation	
		Associate in Applied Science			Total Credits	17
	li	ntegrated Engineering Technology – 1442017019		M	echanical Engineering Technology – 1442013019	
		(Offered at BLC)			(Offered at BLC)	
ENG	101	Writing I	IET	102	Preventive Maintenance	. 2
MAT	126	Technical Algebra and Trigonometry OR	IET	108	Mechanical Drive Systems	
		Higher Level Quantitative Reasoning Course(3)	IET	201	Electrohydraulics/Pneumatics	
		Social/Behavioral Sciences	IET IET	110 120	Welding and Fabrication	
		Heritage/Humanities	11.1	120	1	. <del>.</del> 21
					•	

# **Interactive Design**

The Interactive Design Technology program prepares students for present and future employment in expanding fields of interactive advertising/marketing and animation. Employers of these graduates include advertising agencies, marketing companies, in-house agencies, movie studios, production companies and game developers.

Students will need to achieve a "C" or better in each class to remain in the program.

#### Certificate

#### 3D Modeling Specialist - 0907023019

(Offered at GTW, SKY) IDT 100 IDT 110 3D Modeling & Animation I ......4 IDT 120 Digital Design Tools .......4 IDT 210 IDT 170 IDT 250 **Total Credits** 

# Interdisciplinary Early Childhood Education

The Interdisciplinary Early Childhood Education Program is designed to provide students an understanding of the cognitive, physical, social and emotional development for working with young children. Opportunities to apply this knowledge in practical experiences are incorporated in the curriculum. Curriculum topics include, but are not limited, to developmental ages and stages, health and safety, curriculum planning, assessment and family involvement. Employment opportunities are available in public and private preschools, early care educational settings, early intervention programs, Head Start, hospitals, campus child development centers, rehabilitation clinics and recreation centers.

Students must earn a "C" or higher in each of the IEC courses in order to graduate.

### Associate in Applied Science

#### Interdisciplinary Early Childhood Education - 1907097019

(Offered at ASC, BLC, ELC GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SMC, WKC)

ENG 10	01 Writing I	3
ENG 10	)2 Writing II	3
COM 18	Basic Public Speaking OR	3
COM 25	Introduction to Interpersonal Communications	(3)
PSY 11	10 General Psychology	3
	Heritage/Humanities	
	Natural Sciences	3
	Quantitative Reasoning	3
	Subtotal	21-22

#### **Technical Core Courses**

		Computer/Digital literacy	0-3
IEC	101	Orientation to Early Childhood Education	3
IEC	102	Foundations of Early Childhood Education	3
IEC	120	Health, Safety & Nutrition OR	3
KHP	230	Human Health & Wellness OR	(3)
NFS	101	Human Nutrition and Wellness	(3)
			` '

IEC	130	Early Childhood Development	3
IEC	170	Observation & Assessment OR	3
IEC	190	Applied Experiences in Early Childhood Education	(3)
IEC	180	Approaches to Early Childhood Education Curriculum	3
IEC	200	Child Guidance	3
IEC	216	Literacy and Language in IECE	3
IEC	221	Creative Expressions in IECE	3
IEC	246	Sciences and Mathematics for IECE	3
IEC	235	Introduction to Inclusive Education	3
IEC	260	Infant and Toddler Education and Programming	3
IEC	291	IECE Practicum/Cooperative Education	3
		Subtotal	39-42

Computer/Digital literacy must be demonstrated by competency exam or by completing a computer/digital literacy course

# Choose one course from the following approved technical support elective courses:

11			
IEC	210	Families & Communities in Early Childhood Educa	tion 3
IEC	240	Administration of Early Childhood Education	3
IEC	250	School Age Child Care	3
		Subtotal	3
		Total Credits	63-67

### Diploma

#### Interdisciplinary Early Childhood Education - 1907094019

(Offered at ASC, BLC, ELC, GTW, HEC, HPC, HZC, MDC, MYC, OWC, SMC) Written Communication, Oral Communications, or Area 1 =Area 2 = Social/Behavioral Sciences, or Quantitative Reasoning ...... 3 Subtotal Computer/Digital Literacy course OR demonstrated competency ...... 0-3 **IEC** 101 IEC 102 IEC 120 KHP 230 Human Health & Wellness OR .....(3) NFS 101 Human Nutrition and Wellness.....(3) **IEC** 130 IEC 200 IEC 180 Approaches to Early Childhood Education Curriculum ...... 3 **IEC** 170 **IEC** 190 Applied Experiences in Early Childhood Education .......(3) IEC 216 **IEC** 221 IEC 246 IEC 235 IEC 240 Administration of Early Childhood Education OR............... 3 **IEC** 250 School Age Child Care OR.....(3) IEC. 210 Families & Communities in Early Childhood Education .... (3) IEC 260 IEC 291 **Total Credits:** 48-51

### Certificate

# Interdisciplinary Early Childhood Education Technical Studies - 1907093019

(Offered at ASC, BLC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SMC, WKC)

Required:						
IEC	101	Orientation to Early Childhood Education				
IEC	102	Foundations of Early Childhood Education				
IEC	120	Health, Safety, and Nutrition OR				
KHP	230	Human Health & Wellness OR(3)				
NFS	101	Human Nutrition and Wellness(3)				

IEC	130	Early Childhood Development			School Age Child Care - 1907093069			
IEC	200	Child Guidance	(Offered at ASC, BLC, ELC, GTW, HEC, HPC, HZC, JFC, OWC, SMC,WKC)					
IEC	180	Approaches to Early Childhood Education Curriculum 3	IEC	101	Orientation to Early Childhood Education			
IEC	170	Observation and Assessment OR	IEC	102	Foundations of Early Childhood Education			
IEC	190	Applied Experiences in Early Childhood Education(3)	IEC	130	Early Childhood Development			
IEC	216	Literacy and Language in IECE	IEC	200	Child Guidance			
IEC	221	Creative Expressions in IECE	IEC	250	School Age Child Care			
IEC	246	Sciences and Mathematics for IECE	ILC	230	Total Credits:			
IEC	235	Introduction to Inclusive Education			iotai cicuits.			
IEC	240	Administration of Early Childhood Education OR 3						
IEC	250	School Age Child Care OR(3)			Invasiva Cardialagu			
IEC	210	Families & Communities in Early Childhood Education (3)			Invasive Cardiology			
IEC	260	Infant and Toddler Education and Programming 3						
IEC 291 IECE Practicum/Cooperative Education				didacti	the Invasive Cardiology Program is to provide a competency- ic course with a well-rounded clinical experience. The be exposed to and expected to acquire skills, attitudes, and			
( O. CC	1 10	Child Care Assistant - 1907093039			re common to professionals in the medical field. Graduates ared for a professional career as an Invasive Cardiovascular			
(Offe	ered at ASC	C, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,WKC)	Techn		*			
Requ IEC	uired: 101	Orientation to Early Childhood Education			Certificate			
IEC	101	Orientation to Early Childhood Education						
		Any IECE three (3) hour course with the exception of IECE			Invasive Cardiology – 5109153019			
		190, IECE 230, IECE 250, and IECE 2913			(Offered at JFC)			
		Total Credits 9	DMS	105	Introduction to Cardiology			
			IVC	140	Invasive Cardiology I			
		Kontuolay Child Caro Drovidor 1007002040	IVC	150	Invasive Cardiology II			
	Kentucky Child Care Provider - 1907093049		IVC	160	Invasive Cardiology Clinical Education I			
(Offe	red at ASC	C, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,	IVC	165	Invasive Cardiology Clinical Education II			
		SEC, SMC,WKC)			Total Credits: 44			
		Available Completely Online						
Requ IEC	uired: 101	Orientation to Early Childhood Education			<b>Locomotive Technology</b>			
(Offe		Early Childhood Administrator - 1907093059 C, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,	electri	cal sys	the inspection, repair, service and overhaul of locomotive stems. Interpreting specifications from locomotive manusting procedures and equipment, diagnosing problems and			
		SMC,WKC)	pertor guidel		repairs. To work in the railroad industry, following DOT			
Optio (	on One:	Course Work	0		On the sales			
Requ	uired:				Certificates			
IEC	101	Orientation to Early Childhood Education						
IEC	102	Foundations of Early Childhood Education			Locomotive Electrical Technician - 4902993029			
IEC	240	Administration of Early Childhood Education 3			(Offered at SMC)			
BAS	200	Small Business Management OR	CIS	100	Introduction to Computers OR			
IEC	230	Business Administration of ECE Programs(3)	CPU	150	Computer Fundamentals(3			
		Total Credits 12	MAT	150	College Algebra OR			
			MAT	126	Technical Algebra & Trigonometry(3			
<b>Ontid</b>	nn Two.	With a current CDA Articulated credit for IEC	DIT	112	Diesel Engine Repair(5			
-			DIT	113	Diesel Engine Repair Lab			
101	and IEC	IUZ	ELT	110	Circuits I			
Rea	uired:		ELT	114	Circuits II			
IEC	240	Administration of Early Childhood Education	ELT	210	Devices I			
BAS	200	Small Business Management OR	ELT	214	Devices II.			
IEC	230	Business Administration of ECE Programs(3)	EET	154	Electrical Construction I			
		(3)	EET	155	Electrical Construction I Lab			
Optio	on Three	e: With Life Skills Portfolio to replace	EET	270	Electrical Motor Controls I			
-			EET	271	Electrical Motor Controls I Lab			
	petenci		EET	272	Electrical Motor Controls II			
for I	EC 101	and IEC 102	EET	273	Electrical Motor Controls II Lab			
			ENGT		Introduction to the Rail Industry			
	uired:	Administration of Early Childhaud Education	ENGT		Railroad Locomotive Electrical Systems			
IEC BAS	240 200	Administration of Early Childhood Education			Total Credits 50			
	4UU	Small Business Management OR			· · · · · · · · · · · · · · · · · · ·			

IEC

230

have been within the last five (5) years.

Life Skills is defined as a Total of five years (10,000 Hours) of paid, full-time work experience in a licensed child care facility. Two and one-half years (5,000 Hours) must

# **Logistics and Operations Management**

The Logistics and Operations Management program is designed to teach students about the sourcing, procurement, conversion, and logistics concepts associated with the production and delivery of goods and services.

### Associate in Applied Science

#### Logistics and Operations Management – 5202037019

		(Offered at MYC,WKC)	
		Logistics Management – 5202033019	
		Certificates	
# May i	nclude B.	AS, QMS, STA or Business and Industry approved courses.	
approve	d digital l	must be demonstrated either by competency exam or by completing an literacy course.	
*D· · · ¹	114	Total Credits 60.5-6	58
		Subtotal 42.5-5	<b>5</b> 0
		Electives#	
ECO	202	Principles of Macroeconomics(	
ECO	201	Principles of Microeconomics OR(	
ECO	150	Global Economic Issues OR(	3)
ECO	101	Contemporary Economic Issues OR	
LOM	202	Applied Supply Chain Management	
LOM	102	Supply Chain Management	
LOM	101	Transportation	
LOM	100	Introduction to Logistics Management	
ENG	102	Writing II(	
TEC	200	Technical Communications OR	
BAS	289	Operations Management	
BAS	256	International Business	
BAS	287	Supervisory Management(	
BAS BAS	282	Principles of Management OR	
BAS BAS	160 282	Introduction to Business	
ACC		Managerial Accounting	
ACC	201 202	Financial Accounting	3
LOM	180	Project Management	
	100	Digital Literacy *	
Techr	nical o	r Support Courses	_
001.1			18
COM	252	Introduction to Interpersonal Communication(	
СОМ	181	Basic Public Speaking OR	
		Heritage/Humanities	
		Courses)	2
		from the ECO course selected in the Technical or Support	
		Natural Sciences	3
		Quantitative Reasoning course	
MAT	110	Applied Mathematics or Higher General Education	2
	101	Writing I	Э
ENG			

		Digital Literacy*0-3
LOM	100	Introduction to Logistics Management
LOM	101	Transportation
LOM	102	Supply Chain Management
BAS	287	Supervisory Management
TEC	200	Technical Communications OR

Writing I ......(3)

**Total Credits** 

ENG

101

# **Manufacturing Engineering Technology**

The Manufacturing Engineering Technology degree offers students the opportunity to build a career in advanced manufacturing. It is focused on producing graduates to work as engineering technicians and first-line supervisors in manufacturing firms. The degree provides a broad foundation across many facets of operations management and manufacturing technologies. Graduates will be able to assist in leading projects across multiple disciplines in advanced manufacturing firms. They will possess an understanding of manufacturing operations and possess the interpersonal skills to lead work groups. They will be able to work in almost any manufacturing setting from discrete manufacturing to continuous flow and assembly line operations.

# Associate in Applied Science

# Manufacturing Fusing sting Tachnology 1500107000

Manufacturing Engineering Technology - 1506137029							
(Offered at GTW)							
	al Educ						
COM	181	Basic Public Speaking OR					
COM	252	Introduction to Interpersonal Communications(3)					
ENG	101	Writing I					
MAT	150	College Algebra					
MAT	155	Trigonometry					
STA	220	Statistical Method OR					
MAT	170	Brief Calculus with Applications(3)					
PSY	110	General Psychology OR					
SOC	101	Introduction to Sociology					
		Heritage / Humanities         3           Subtotal         24					
		Subtotal 24					
Core							
		Computer/Digital Literacy0-3					
BAS	160	Introduction to Business					
COE	199	Cooperative Education OR					
MFG	175	Lean Operations(2)					
ELT	110	Circuits I					
ELT	201	Statics and Strengths of Materials					
BAS	289	Operations Management OR					
MFG	256	Production Management(3)					
MFG	135	Fundamentals of Mechatronics					
QMS	101	Introduction to Quality Systems					
QMS	101	Introduction to Quality Systems					
	101 ical Elec	Subtotal 25-29					
		Subtotal 25-29 ctives Supervisory Management					
Techn	ical Elec	Subtotal 25-29  ctives Supervisory Management					
Techn BAS BAS BRX	287 288 112	Subtotal 25-29  ctives Supervisory Management					
Techn BAS BAS BRX BRX	287 288 112 120	Subtotal 25-29  ctives  Supervisory Management					
Techn BAS BAS BRX BRX COE	287 288 112 120 199	Subtotal 25-29  ctives  Supervisory Management					
Techn BAS BAS BRX BRX COE CAD	287 288 112 120 199 102	Subtotal 25-29  Ctives  Supervisory Management					
Techn BAS BAS BRX BRX COE CAD CAD	287 288 112 120 199 102	Subtotal 25-29  ctives  Supervisory Management					
Techn BAS BAS BRX BRX COE CAD CAD DFT	ical Elec 287 288 112 120 199 102 112 152	Subtotal 25-29  Ctives  Supervisory Management					
Techn BAS BAS BRX BRX COE CAD CAD DFT EET	287 288 112 120 199 102 112 152 154	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET	287 288 112 120 199 102 112 152 154 155	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET	287 288 112 120 199 102 112 152 154 155 264	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET	287 288 112 120 199 102 112 152 154 155 264 265	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270 271	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270 271	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270 271 272 273	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270 271 272 273 276	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Programmable Logic Controllers         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET	112 120 199 102 112 152 154 155 264 265 270 271 272 273	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET EET E	112 120 199 102 112 152 154 155 264 265 270 271 272 273 276 277	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Programmable Logic Controllers         2           Programmable Logic Controllers Lab         2					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET EET E	112 120 199 102 112 152 154 155 264 265 270 271 272 273 276 277 110	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Programmable Logic Controllers         2           Programmable Logic Controllers Lab         2           Circuits I         5					
Techn BAS BAS BRX COE CAD CAD DFT EET EET EET EET EET EET EET EET EET E	112 120 199 102 112 152 154 155 264 265 270 271 272 273 276 277 110 114	Subtotal         25-29           ctives         Supervisory Management         3           Personal and Organizational Leadership         3           Blueprint Reading for Machinists OR         4           Basic Blueprint Reading         (3)           Cooperative Education         1-5           Drafting Fundamentals OR         4           Engineering Graphics         (4)           Intermediate Computer Aided Drafting         4           Electrical Construction I         2           Electrical Construction I Lab         2           Rotating Machinery         2           Rotating Machinery Lab         2           Electrical Motor Controls I         2           Electrical Motor Controls I Lab         2           Electrical Motor Controls II Lab         2           Electrical Motor Controls II Lab         2           Programmable Logic Controllers         2           Programmable Logic Controllers Lab         2           Circuits I         5           Circuits II         5					

<sup>\*</sup>Digital literacy must be demonstrated either by competency exam or by completing an approved digital literacy course.

FPX	100	Fluid Power3	BAS	289	Operations Management OR 3
FPX	101	Fluid Power Lab	MFG	256	Production Management(3)
IMT	150	Maintaining Industrial Equipment I			Subtotal
IMT	151	Maintaining Industrial Equipment I Lab			
MFG	145	Manufacturing Processes OR			Total 12
CMM	110	Fundamentals of Machine Tool - A(3)			
	112	Fundamentals of Machine Tool – B			Fundameters Machining 400E00000
CMM					Exploratory Machining - 4805033039
CMM	118	Metrology and Control Charts	CMM	110	Fundamentals of Machine Tools A AND
CMM	130	Manual Programming	CMM	112	Fundamentals of Machine Tools B OR4
CMM	132	CAD/CAM/CNC3	CMM	114	Fundamentals of Machine Tools(7)
MFG	256	Production Management			Total 7
QMS	101	Introduction to Quality Systems			,
QMS	220	Quality Audits			
QMS	240	Statistics for Quality I (if ST291 is not taken in the core) 3			Fundamentals of Mechatronics - 1500003219
		Subtotal 14			(Offered at BSC)
			MEC	125	$\omega$
		Total Credits 63-67	MFG	135	Fundamentals of Mechatronics OR
			MFG	125	Special Topics in Engineering Technology:
A minir	num of fou	urteen (14) credit hours must be taken from the approved technical			Fundamentals of Mechatronics – A AND(3)
elective	list. Othe	er courses may be taken with the approval of the program coordinator.	MFG	130	Special Topics in Engineering Technology:
		0 - 4 - 6 - 4 - 4			Fundamentals of Mechatronics – B(3)
		Certificates			Total 6
	Inted	grated Manufacturing Technologies - 1506133069			
	IIILUE			Mani	ufacturing Industrial Technology
		(Offered at GTW)		maii	ulautuliig illuustilai luuliilluugy
FPX	100	Fluid Power			0,
FPX	101	Fluid Power Lab		T	and the second s
ELT	110	Circuits I		iwo pr	ograms are offered under the broader heading of MIT.
IMT	150	Maintaining Industrial Equipment			They are Electrical Technology
IMT	151	Maintaining Industrial Equipment Lab			They are Lieuthual reciliology
EET	270	Electrical Motor Controls I			and Industrial Maintenance Technology
EET	271	Electrical Motor Controls I Lab			and maderial maintenance reciniology
		Total Credits 19			MIT EL . L. LT. L. L.
					MIT: Electrical Technology
					1711 1. I 1434311 143631 143431111431432 W
		0 11: 0 . 1 450040040			
		Quality Control - 1506133049			
		Quality Control - 1506133049			al Technology Program focuses on preparing students for
_		(Offered at GTW)			
Gene	ral Edu	(Offered at GTW)	variou	ıs entry	al Technology Program focuses on preparing students for r-level electrical positions in industry and the building
<b>Gene</b> COM		(Offered at GTW)	variou trades	us entry s. The st	al Technology Program focuses on preparing students for r-level electrical positions in industry and the building rudy of electrical theory in the classroom and the practical
		(Offered at GTW)	variou trades applio	us entry s. The st cation of	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building study of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program.
COM	181	(Offered at GTW)  cation  Basic Public Speaking OR	variou trades applic This p	us entry s. The st cation of program	al Technology Program focuses on preparing students for r-level electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. It is versatile in offering three different tracks within the As-
COM COM	181 252	(Offered at GTW)  cation  Basic Public Speaking OR	variou trades applic This p sociat	us entry s. The st cation of program se of App	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas
COM COM	181 252	(Offered at GTW)  cation  Basic Public Speaking OR	variou trades applic This p sociat	us entry s. The st cation of program se of App	al Technology Program focuses on preparing students for r-level electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. It is versatile in offering three different tracks within the As-
COM COM MAT	181 252	(Offered at GTW)  cation  Basic Public Speaking OR	variou trades applic This p sociat	us entry s. The st cation of program e of App as path	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas
COM COM MAT	181 252 150	(Offered at GTW)  cation  Basic Public Speaking OR	variou trades applic This p sociat serve	us entry s. The st cation of program e of App as path	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas
COM COM MAT Core BRX	181 252 150	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4	variou trades applic This p sociat serve ing ne	as entry s. The st cation of program e of App as path eeds.	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific train-
COM MAT  Core BRX BRX	181 252 150	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4         Basic Blueprint Reading OR       (3)	variou trades applic This p sociat serve ing no	as entry s. The st cation of program te of App as path eeds.	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific train-
COM COM MAT  Core BRX BRX CAD	181 252 150 112 120 102	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4         Basic Blueprint Reading OR       (3)         Drafting Fundamentals OR       (4)	variou trades applic This p sociat serve ing ne Stude achiev	as entry s. The st cation of crogram e of App as pathe eeds.  onts enro we a min	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building study of electrical theory in the classroom and the practical of that theory in labs provide the foundation of this program. In its versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific train-
COM COM MAT  Core BRX BRX CAD CAD	181 252 150 112 120 102 112	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4         Basic Blueprint Reading OR       (3)         Drafting Fundamentals OR       (4)         Engineering Graphics       (4)	variou trades applic This p sociat serve ing ne Stude achiev	as entry s. The st cation of crogram e of App as pathe eeds.  onts enro we a min	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In is versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific train-
COM COM MAT  Core BRX BRX CAD CAD CMM	181 252 150 112 120 102 112 118	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4         Basic Blueprint Reading OR       (3)         Drafting Fundamentals OR       (4)         Engineering Graphics       (4)         Metrology and Control Charts       3	variou trades applic This p sociat serve ing ne Stude achiev	as entry s. The st cation of crogram e of App as pathe eeds.  onts enro we a min	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In its versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific trainfolled in the Electrical Technology program are required to animum grade of "C" in the technical core and in those courses technical electives.
COM COM MAT  Core BRX BRX CAD CAD CMM QMS	181 252 150 112 120 102 112 118 101	(Offered at GTW)         cation         Basic Public Speaking OR       3         Introduction to Interpersonal Communications       (3)         College Algebra       3         Subtotal       6         Blueprint Reading for Machinists OR       4         Basic Blueprint Reading OR       (3)         Drafting Fundamentals OR       (4)         Engineering Graphics       (4)         Metrology and Control Charts       3         Introduction to Quality Systems       3	variou trades applic This p sociat serve ing ne Stude achiev	as entry s. The st cation of crogram e of App as pathe eeds.  onts enro we a min	al Technology Program focuses on preparing students for relevel electrical positions in industry and the building rudy of electrical theory in the classroom and the practical f that theory in labs provide the foundation of this program. In its versatile in offering three different tracks within the Asplied Science degree. A variety of certificates and diplomas ways to the AAS degree tracks or as meeting specific trainfolled in the Electrical Technology program are required to animum grade of "C" in the technical core and in those courses technical electives.
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Fary student successfully tests out of Computer/Digital Literacy be/she must take an additional Technical Course approved by the Electrical Program Coordinator			hematics Course(3
Literacy he/she must take an additional Technical Course approved by the Electrical Program Coordinator.   30   1   10   10   10   10   10   10			· (
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Industrial Electrician Track - 460302701   EET			
BIOUSTIAL ELECTICION TIRCK - 4000UVI   EET 264   Rotating Machin			G 1
Construction   Lab And December   Construction   Lab And December		INIICTEIRI FIRETTEIRA ITREK - /INIIKII/IIII	Code
EET   154   Electrical Construction I AND   2   EET   270   Electrical Motor   EET   252   Electrical Construction I I AND   2   EET   271   Electrical Motor   EET   252   Electrical Construction II AND   2   EET   253   Electrical Construction II AND   2   EET   255   Electrical Construction I AND   2   EET   275   Electrical Construction I AND   2   EET   275   Electrical Motor Controls II ADA   2   EET   275   Electrical Motor Controls II ADA   2   EET   277   Electrical Motor Controls II ADA   2   EET   278   Electrical Motor Controls II ADA   2   EET   277   Programmable Logic Controllers AND   3   EET   278   Electrical Motor Controls II and PLCs Lab   4   EET   255   Electrical Motor Controls II and PLCs Lab   4   EET   255   Electrical Construction I AND   2   EET   278   Electrical Motor Controls II and PLCs Lab   4   EET   255   Electrical Construction I AND   2   EET   278   Electrical Construction I AND   2   EET   275   Electrical Construction I AND   2   EET   275   Electrical Construction I ELECT   252   Electrical Construction I AND   2   EET   273   Electrical Construction I ELECT   254   Electrical Construction I I AND   2   EET   275   Electrical Construction I ELECT   255   Electrical Construction I ELECT   256   Electrical Construction I ELECT   257   Electrical Construction I ELECT   258   Electrical Construction I ELECT   259   Electrical Construction I ELECT   250   Electrical Construction I ELECT		COM 1 DEG FIG ONG WILLIAM	ery
EET   155	TT 11		ery Lab
EET   252   Electrical Construction II AND   2   2   2   3   3   4   4   5   5   4   5   5   5   5   5			Controls I
EET   253			Controls I Lab
EFT   254   Electrical Construction AND.		ectrical Construction II AND	tal Literacy OR
EET   254   Electrical Construction AND	ET 25	ectrical Construction II Lab OR	cessfully tests out of Computer/Digital
EET   272   Electrical Motor Controls II JAND	ET 25	1 4 · 1 C 4 4 · AND	,
EET   272   Electrical Motor Controls II IABAD   2   2   2   2   2   2   2   2   2	ET 25	ectrical Construction Lab(4) he/she must take	an additional Technical Course
EET   273   Electrical Motor Controls II Lab AND   2   2   2   2   2   2   2   2   2	ET 27	1 1	Electrical Program Coordinator(3
EET   276   Programmable Logic Controllers AND   2   2   2   2   2   2   2   2   2	ET 27		2!
EET   277	ET 27	2 TO 10 TO 11	_
EET   278   Electrical Motor Controls II and PLCs AND		rogrammable Logic Controllers Lab OR	
EET   279   Electrical Motor Controls II and PLCs Lab   49   60   60   66   68   66   68   66   68   66   68   66   68   66   66   68   66   66   68   66   66   68   66   66   68   66   69   66   69   66   69   66   69   66			ician Track - 460302401
Technical Electrics			
Total Credits	EI Z	1 . 1	-
Total Credits			MC,WKC)
Construction Electrician Track - 460302702   EET   252   Electrical Construction   Confered at BLC, ELC, OWC, WKC)   EET   255   Electrical Construction   EET		EET 151 Electrical Constitu	action I AND
Construction Electrician Track - 460302702		otal Credite 66-6X	action I Lab AND
Construction Electrical Track - 460302702   EET   254   Electrical Construction   EET   154   Electrical Construction   1 AND   2   EET   255   Electrical Motor   EET   252   Electrical Construction   I AND   2   EET   273   Electrical Motor   EET   253   Electrical Construction   I AND   2   EET   276   Programmable Letter   254   Electrical Construction   I AND   2   EET   277   Programmable Letter   255   Electrical Construction   I AND   2   EET   278   Electrical Motor   EET   255   Electrical Construction   I AND   (3)   EET   279   Electrical Motor   Controls   EET   255   Electrical Construction   I AND   (4)   EET   279   Electrical Motor   Subtotal   T7-18   EET   279   Electrical Motor   Controls   I AND   2   EET   275   Electrical Motor Controls   I AND   2   EET   275   Electrical Motor Controls   I AND   2   EET   275   Electrical Construction   EET   273   Electrical Motor Controls   I AND   2   EET   275   Electrical Construction   EET   276   Programmable Logic Controllers AND   2   EET   255   Electrical Construction   EET   276   Programmable Logic Controllers   EET   275   Electrical Construction   EET   276   Programmable Logic Controllers   EET   275   Electrical Construction   EET   276   Electrical Motor Controls   I And PLC's AND   2   EET   255   Electrical Construction   EET   276   Electrical Motor Controls   I And PLC's Lab   (4)   EET   255   Electrical Construction   EET   276   Electrical Motor Controls   EET   277   Electrical Construction   EET   278   Electrical Construction   EET   278   Electrical Construction   EET   279   Electrical Construction   EET   276   EET   277   Electrical Construction   EET   278   Electrical Construction   EET   278   Electrical Construction   EET   278   Electrical Construction   EET   278   Electrical Motor   EET   279   EET   279   ELectrical Motor   EET   279   ELectrical Motor   EET   279		EET 252 Electrical Constru	action II AND
Construction   AND   Controls   EET   255   Electrical Motor   EET   154   Electrical Construction   AND   2   EET   273   Electrical Motor   EET   252   Electrical Construction   I Lab AND   2   EET   276   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   AND   (4)   EET   279   Electrical Motor Technical Electrical Construction   AND   17-18   Subtotal   17-18      Total Credits			uction II Lab OR
Construction   AND   Controls   EET   255   Electrical Motor   EET   154   Electrical Construction   AND   2   EET   273   Electrical Motor   EET   252   Electrical Construction   I Lab AND   2   EET   276   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   I Lab OR   2   EET   277   Programmable Legic Construction   AND   (4)   EET   279   Electrical Motor Technical Electrical Construction   AND   17-18   Subtotal   17-18      Total Credits		I <b>struction Electrician Track - 460302702</b> EET 254 Electrical Constru	uction AND(3
EET   154   Electrical Construction   1 AND   2   EET   272   Electrical Motor		PPT ASS PLANTED	uction Lab(4
EET 155 Electrical Construction I Lab AND 2 EET 273 Electrical Motor Programmable Let 252 Electrical Construction II Lab OR 2 EET 277 Programmable Let 253 Electrical Construction II Lab OR 2 EET 277 Programmable Let 254 Electrical Construction II Lab OR 2 EET 277 Programmable Let 255 Electrical Construction Lab 44 Technical Electives* 10 EET 255 Electrical Construction Lab 44 Technical Electives* 10 Subtotal 17-18  **Total Credits**  **Motor Controls Electrician Track - 460302703**  **Officed at BLC, OWC, WKC)**  EET 272 Electrical Motor Controls II Ab AND 2 EET 154 Electrical Construction Electrical EET 276 Programmable Logic Controllers AND 2 EET 155 Electrical Construction EET 277 Programmable Logic Controllers AND 2 EET 252 Electrical Construction EET 278 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction EET 279 Electrical Motor Controls II and PLC's Lab 44 EET 254 Electrical Construction EET 279 Electrical Motor Controls II and PLC's Lab 44 EET 255 Electrical Construction EET 279 Electrical Motor Controls II and PLC's Lab 45 EET 254 Electrical Construction EET 279 Electrical Motor Controls II and PLC's Lab 46 EET 255 Electrical Construction EET 279 Electrical Motor Controls II and PLC's Lab 47 EET 255 Electrical Construction EET 279 Electrical Motor EET 270 Electrical Motor EET 270 Electrical Construction EET 270 Electrical Electrical EET 270 Electrical Construction EET 270 Electrical EET 270 Electrical Motor EET 271 Electrical Motor EET 272 Electrical Motor EET 273 Electrical Motor EET 273 Electrical Motor EET 274 Electrical Motor EET 275 Electrical Motor EET 275 Electrical Motor EET 275 Electrical Motor EET 276 Electrical Motor EET 277 EPT 275 Electrical EET 27	ET 10	(O) cited at BEO, EEC, OTTC, TITC)	Controls II AND
EET 153 Electrical Construction II AND 2 EET 276 Programmable L EET 253 Electrical Construction II AND 3 EET 278 Electrical Construction AND 3 EET 279 Electrical Motor Technical Electives* 10 Subtotal 17-18  Total Credits 60-61 Total Credits  Motor Controls Electrician Track - 460302703 (Offered at BLC, OWC, WKC)  EET 273 Electrical Motor Controls II AND 2 EET 279 Electrical Construction Electives* 10 Subtotal 17-18  EET 273 Electrical Motor Controls II AND 2 EET 154 Electrical Construction Electives EET 273 Electrical Motor Controls II Lab AND 2 EET 154 Electrical Construction Electives EET 277 Programmable Logic Controllers AND 2 EET 252 Electrical Construction EET 277 Programmable Logic Controllers AND 2 EET 253 Electrical Construction EET 279 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction EIT 279 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction EIT 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction EIT 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction EIT 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction EIT 270 EIT 271 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction EIT 270 EIT 271 Electrical Electives EIT 272 Electrical Construction EIT 273 Electrical Electives EIT 274 Electrical Construction EIT 275 Electrical Electives EIT 275 Electrical Construction EIT 275 Electrical Electives EIT 275 Electrical Motor EIT 275 Electrical		FET 273 Electrical Motor (	Controls II Lab AND
EET 253 Electrical Construction II Lab OR. 2 EET 277 Programmable L Electrical Construction AND. 3 EET 278 Electrical Motor Technical Electrical Motor Technical Electrical Motor Controls II Lab AND. 2 EET 154 Electrical Construction EBET 279 Electrical Motor Controls II Lab AND. 2 EET 155 Electrical Construction EBET 279 EET 154 Electrical Construction EBET 273 Electrical Motor Controls II Lab AND. 2 EET 155 Electrical Construction EBET 276 Programmable Logic Controllers AND. 2 EET 253 Electrical Construction EBET 277 Programmable Logic Controllers AND. 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND. 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND. 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND. 3 EET 255 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND. 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND. 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction EBET 279 Electrical Motor Controls II and PLC's AND 4 EET 255 Electrical Construction EBET 270 Electrical Electrical Electrical Electrical Electrical Electrical EBET 270 Electrical Electrical Electrical Electrical EBET 270 Electrical Electrical Electrical EBET 271 Electrical Electrical EBET 272 Electrical Electrical EBET 273 Electrical Electrical EBET 273 Electrical Motor EBET 274 Electrical Motor EBET 275 E		lectrical Construction I Lab AND	ogic Controllers AND
EET 254 Electrical Construction AND		EET 277 Programmable Lo	ogic Controllers Lab OR
EET 255 Electrical Construction Lab. (4) Technical Electives* 10 Subtotal 17-18  Total Credits 60-61  Motor Controls Electrician Track - 460302703 (Offered at BLC, OWC, WKC) EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Construction Electrical Motor Controls II AND 2 EET 155 Electrical Construction EET 276 Programmable Logic Controllers AND 2 EET 252 Electrical Construction EET 277 Programmable Logic Controllers Lab OR 2 EET 253 Electrical Construction EET 279 Electrical Motor Controls II and PLC's AND (3) EET 279 Electrical Motor Controls II and PLC's Lab. (4) EET 279 Electrical Motor Controls II and PLC's Lab. (4) EET 279 Electrical Motor Controls II and PLC's Lab. (4) EET 265 Applied Fluid Power AND 3 EET 255 Electrical Construction Electrical Electrical Motor Controls II and PLC's Lab. (4) EET 265 Applied Fluid Power Lab OR 2 EET 255 Electrical Construction Electrical E		EET 278 Floatrical Motor (	Controls II and PLCs AND(3
Technical Electives* 10 Subtotal 17-18  Total Credits 60-61  Motor Controls Electrician Track - 460302703  (Offered at BLC, OWC, WKC)  EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Construction Electrical Motor Controls II Lab AND 2 EET 155 Electrical Construction Electrical Motor Controls II Lab AND 2 EET 252 Electrical Construction Electrical Motor Controls II Lab AND 2 EET 253 Electrical Construction Electrical Motor Controls II Lab AND 2 EET 254 Electrical Construction Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction Electrical Motor Controls II and PLC's AND 3 EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Electric		(5) EET 270 Electrical Motor (	Controls II and PLCs Lab(4
Motor Controls Electrician Track - 460302703  (Offered at BLC, OWC, WKC)  EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Construction Electrical Track - 460302703  (Offered at BLC, OWC, WKC)  EET 273 Electrical Motor Controls II Lab AND 2 EET 155 Electrical Construction Electrical Track - 460302703  EET 276 Programmable Logic Controllers AND 2 EET 155 Electrical Construction Electrical Track - 460302703  EET 277 Programmable Logic Controllers AND 2 EET 252 Electrical Construction Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Construction Electrical Motor Controls II and PLC's AND 4 EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Construction Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Electric	ET 25	ICCU ICAI COIISU UCUOII LaD	es*(+
Notor Controls Electrician Track - 460302703   Construction Electrician Electrician Motor Controls II AND		connect Electives" 10	
Motor Controls Electrician Track - 460302703  (Offered at BLC, OWC, WKC)  EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Constr EET 273 Electrical Motor Controls II Lab AND 2 EET 252 Electrical Constr EET 277 Programmable Logic Controllers AND 2 EET 253 Electrical Constr EET 278 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Constr EET 279 Electrical Motor Controls II and PLC's AND 3 EET 255 Electrical Constr Technical Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Constr Technical Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Constr Technical Electrical Constr Technical Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Constr Technical Electrical Constr Technical Electrical Motor EET 279 Electrical Motor Controls II and PLC's Lab (4) EET 255 Electrical Constr Technical Electrical Electrica		ubtotal 17-18 Subtotal	23-29
Motor Controls Electrician Track - 460302703   Coffered at BLC, OWC,WKC)   Coffered at BLC, OWC,WKC    Coffered at BLC, OWC,WKC    EET   272   Electrical Motor Controls II AND   2   EET   154   Electrical Construction Electrical Programmable Logic Controllers AND   2   EET   155   Electrical Construction Electrical Programmable Logic Controllers AND   2   EET   252   Electrical Construction Electrical Programmable Logic Controllers AND   2   EET   252   Electrical Construction Electrical Motor Controls II and PLC's AND   3   EET   254   Electrical Construction Electrical Motor Controls II and PLC's AND   3   EET   255   Electrical Construction Electrical Programmable Logic Controllers AND   EET   279   Electrical Motor Controls II and PLC's Lab   4   EET   255   Electrical Construction Electrical Programmable P		otal Credits 60-61 Total Credits	54-56
(Offered at BLC, OWC,WKC)  EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Constr EET 273 Electrical Motor Controls II Lab AND 2 EET 155 Electrical Constr EET 276 Programmable Logic Controllers AND 2 EET 252 Electrical Constr EET 277 Programmable Logic Controllers Lab OR 2 EET 253 Electrical Constr EET 278 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Constr EET 279 Electrical Motor Controls II and PLC's AND 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Elective Subtotal  FPX 101 Fluid Power Lab OR 2 EET 255 Electrical Electrical Electives Subtotal  Total Credits  Total Credits  Total Credits   **Confered at ASC, BLC, BLC, GLC, GLC, GLC, GLC, GLC, GLC, GLC, G			
COffered at BLC, OWC,WKC    EET 272   Electrical Motor Controls II AND   2   EET 154   Electrical Constr EET 276   Programmable Logic Controllers AND   2   EET 155   Electrical Constr EET 276   Programmable Logic Controllers AND   2   EET 252   Electrical Constr EET 277   Programmable Logic Controllers Lab OR   2   EET 253   Electrical Constr EET 278   Electrical Motor Controls II and PLC's AND   (3)   EET 254   Electrical Constr EET 279   Electrical Motor Controls II and PLC's Lab   (4)   EET 255   Electrical Constr Technical Electives*   Tec		or Controls Electrician Track - 460302703 Construction Elect	trician Track - 460302402
EET 272 Electrical Motor Controls II AND 2 EET 154 Electrical Constr EET 273 Electrical Motor Controls II Lab AND 2 EET 155 Electrical Constr EET 276 Programmable Logic Controllers AND 2 EET 252 Electrical Constr EET 277 Programmable Logic Controllers Lab OR 2 EET 253 Electrical Constr EET 278 Electrical Motor Controls II and PLC's AND 3 EET 254 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr Technical Electives Nubtotal EET 279 Electrical Motor Controls II and PLC's Lab 4 EET 255 Electrical Constr Technical Electives Nubtotal Technical Electives Nubtotal Technical Electives Nubtotal Total Credits Subtotal Total Credits Subtotal Total Credits Electrical Motor Controls Electrical Technology - 4603024049 EET 273 Electrical Motor EET 274 Electrical Motor EET 275 Electrical Motor Controls Electrical Motor EET 275 Electrical Motor EET 276 Programmable Lectrical Motor EET 277 ED ELECTRICAL Motor EET 278 Electrical Motor EET 279 EIT 279 EI		OC 1 DIC DCC FIC CTIVII	HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)
EET   273   Electrical Motor Controls II Lab AND   2   EET   155   Electrical Constr	ET 25	(b) little at BEO, or o, rive)	action I AND
EET 276 Programmable Logic Controllers AND. 2 EET 252 Electrical Constr EET 277 Programmable Logic Controllers Lab OR 2 EET 253 Electrical Constr EET 278 Electrical Motor Controls II and PLC's AND. (3) EET 254 Electrical Constr EET 279 Electrical Motor Controls II and PLC's Lab. (4) EET 255 Electrical Constr FPX 100 Fluid Power AND. 3 Fex 101 Fluid Power Lab OR 2 ELT 265 Applied Fluid Power . (3) Technical Electives* 7 Subtotal 17-20  Total Credits 60-63   Diploma  Electrical Technology - 4603024049  (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  General Education:  Area 1  Written Communication OR 3 Heritage/ Humanities OR (3) Fex 10 Fex		FET 155 Floatrical Constru	uction I Lab AND
Figurinal Programmable Logic Controllers AND 2  EET 277 Programmable Logic Controllers Lab OR 2  EET 278 Electrical Motor Controls II and PLC's AND (3)  EET 279 Electrical Motor Controls II and PLC's Lab (4)  FPX 100 Fluid Power AND (3)  FPX 101 Fluid Power Lab OR (2)  ELT 265 Applied Fluid Power (3)  Technical Electives* (7)  Subtotal 17-20  Total Credits 60-63   Diploma EET 272 Electrical Motor Controls Electrical Motor EET 273 Electrical Motor EET 274 Programmable Logic Motor EET 275 Electrical Motor Controls Electrical Motor EET 276 Programmable Logic Motor EET 277 Programmable Logic Motor EET 279 Electrical Motor SMC,WKC) EET 279 Electrical Motor EET 279 Electrical Electrical Motor EET 279 Electrical Motor EET 279 Electrical Electrical Motor EET 279 Electrical		EET 252 Elactrical Construction	uction II AND
EET 278 Electrical Motor Controls II and PLC's AND		regrammable Logic Controllers AND	uction II Lab OR
EET 279 Electrical Motor Controls II and PLC's Lab		rogrammable Logic Controllers Lab OK	uction AND(3
FPX 100 Fluid Power AND		lectrical motor Controls II and PLC s AND(3)	uction Lab(4
FPX 101 Fluid Power Lab OR	ET 27	lectrical Motor Controls II and PLC's Lab(4)	es*
FELT 265 Applied Fluid Power	PX 10	uid rowei AND	
Technical Electrices*	PX 10	uid Power Lab OR	17-18
Technical Electives*	LT 26	pplied Fluid Power(3) Total Credits	48-49
Total Credits  Diploma  EET 272 Electrical Motor EET 273 Electrical Motor EET 273 Electrical Motor EET 274 Programmable L EET 275 Programmable L EET 275 Programmable L EET 276 Programmable L EET 277 Programmable L EET 277 Electrical Motor EET 277 Electrical Motor EET 278 Electrical Motor EET 279 Electrical Motor EET 279 Electrical Motor FPX 100 Fluid Power ANI FPX 100 Fluid Power ANI EET 279 Electrical Motor EET 279 Electrical Electrical EIT 270 E		echnical Electives*7	10 1.
Total Credits   G0-63   (Offered at A Conference of Conf		ubtotal 17-20	
Diploma  EET 272 Electrical Motor EET 273 Electrical Motor EET 276 Programmable L EET 277 Programmable L (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)  General Education:  Area 1  Written Communication OR		Motor Controls Elec	ctrician Track - 460302403
UIPIOMA  EET 273 Electrical Motor EET 276 Programmable L  Electrical Technology - 4603024049  (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  General Education:  Area 1  Written Communication OR		(Offered at B.	BLC, BSC, OWC,WKC)
Electrical Technology - 4603024049  (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  General Education:  Area 1  Written Communication OR		Ninloma EET 272 Electrical Motor C	Controls II AND
Electrical Technology - 4603024049  (Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  General Education:  Area 1  Written Communication OR			Controls II Lab AND
(Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  SMC,WKC)  General Education:  Area 1  Written Communication OR			ogic Controllers AND
(Offered at ASC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)  SMC,WKC)  General Education:  Area 1  Written Communication OR		<b>EET</b> 277 Programmable Lo	ogic Controllers Lab OR
SMC,WKC)  SMC,WKC)  FPX 100 Fluid Power ANI FPX 101 Fluid Power Lab Applied Fluid Po Technical Electiv Subtotal	(Offered		Controls II and PLC's AND(3
General Education:  Area 1  Written Communication OR	Justea	EET 2'/9 Electrical Motor (	Controls II and PLC's Lab(4
Area 1  Written Communication OR		FPX 100 Fluid Power AND	)
Area 1  Written Communication OR	General	on: FPX 101 Fluid Power Lab C	OR
Written Communication OR	rea 1		ver(3
Heritage/ Humanities OR	ii Ca I	Table : al Ela ation	s*
Oral Communications (2)		Titten Communication OK	17-20
Oral Communications(3) Total Credits		red Communications (2)	1, 2,
Total Credits		ral Communications(3) Total Credits	48-51

### C-4:6:-4--

Certificates				Electrical Motor Control Level I - 4603023079					
			(Off		SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,				
		Electrical Construction - 4603023029	-		SMC,WKC)				
(Off	ored at A	SC, BLC, BSC, ELC, HPC, HZC, JFC, MYC, OWC, SEC, SKY, SMC,	ELT	110	Circuits I5				
(0))	crea at 11.	WKC)	ELT	114	Circuits II5				
ELT	110	Circuits I	EET	150	Transformers AND				
ELT	114	Circuits II	EET	151	Transformers Lab AND				
EET	150	Transformers	EET	264*	Rotating Machinery AND				
EET	151	Transformers Lab. 1	EET	265*	Rotating Machinery Lab OR				
EET	250	National Electric Code	EET	266	Rotating Machinery and Transformers AND(3)				
EET	154	Electrical Construction I AND	EET	267	Rotating Machinery and Transformers Lab(3)				
EET	155	Electrical Construction I Lab AND	EET	250	National Electrical Code4				
EET	252	Electrical Construction II AND	EET	270	Electrical Motor Controls I AND				
EET	253	Electrical Construction II Lab OR	EET	271	Electrical Motor Controls I Lab AND				
EET	254	Electrical Construction AND	EET	264*	Rotating Machinery AND(2)				
EET	255	Electrical Construction Lab(4)	EET	265*	Rotating Machinery Lab OR(2)				
EET	264		EET	268	Rotating Machinery Electrical Motor Controls I AND(3)				
EET	265	Rotating Machinery AND	EET	269	Rotating Machinery Electrical Motor Controls I Lab(4)				
EET	270	Rotating Machinery Lab AND	CPU	150	Computer Fundamentals OR				
EET	270	Electrical Motor Controls I AND	CIS	100	Introduction to Computers(3)				
		Electrical Motor Controls I Lab OR			Total Credits 28-30				
EET	268	Rotating Machinery Electrical Motor Controls I AND(3)							
EET	269	Rotating Machinery Electrical Motor Controls I Lab(4)  Total Credits 31-33	*May l	e offered i	in different combinations.				
		iotal cicuits 31-33			Flantwined Meters Combred Level II 4002022000				
		Floatrician Traings Lavel L 4002022020			Electrical Motor Control Level II - 4603023089				
		Electrician Trainee Level I - 4603023039	(Off	ered at AS	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,				
(Offe	ered at AS	C, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MYC, OWC, SEC,			SMC,WKC)				
		SKY, $SMC$ , $WKC$ )	ELT	110	Circuits I5				
ELT	110	Circuits I 5	ELT	114	Circuits II5				
		Technical Electives	EET	150	Transformers AND				
		Total Credits 8	EET	151	Transformers Lab AND				
			EET	264*	Rotating Machinery AND				
		Flootwinion Traince Level II 400000000	EET	265*	Rotating Machinery Lab OR				
		Electrician Trainee Level II - 4603023059	EET	266	Rotating Machinery and Transformers AND(3)				
(Offe	ered at AS	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,	EET	267	Rotating Machinery and Transformers Lab(3)				
		SMC,WKC)	EET	250	National Electrical Code4				
ELT	110	Circuits I5	EET	264*	Rotating Machinery AND(2)				
ELT	114	Circuits II5	EET	265*	Rotating Machinery Lab AND(2)				
		Technical Electives	EET	270	Electrical Motor Controls I AND				
		Total Credits 13	EET	271	Electrical Motor Controls I Lab OR				
			EET	268	Rotating Machinery Electrical Motor Controls I AND(3)				
		D '1 1' 1E1 1' '1 1 11 400000040	EET	269	Rotating Machinery Electrical Motor Controls I Lab (4)				
		Residential Electricity Level I - 4603023049	EET	272	Electrical Motor Controls II AND				
(Offe	ered at AS	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,	EET	273	Electrical Motor Controls II Lab AND				
` D		SMC,WKC)	EET	276	Programmable Logic Controllers AND				
ELT	110	Circuits I	EET	277	Programmable Logic Controllers Lab OR				
ELT	114	Circuits II	EET	278	Electrical Motor Controls II and PLCs AND(3)				
EET	154	Electrical Construction I 2	EET	279	Electrical Motor Controls II and PLCs Lab(4)				
EET	155	Electrical Construction I Lab	CPU	150	Computer Fundamentals OR				
LLI	133	Total Credits 14	CIS	100	Introduction to Computers(3)				
		iotal cicults			Total Credits 35-38				
		Residential Electricity Level II - 4603023069	* May	be offered	in different combinations.				
(Offe	ered at AS	SC, BLC, BSC, ELC, GTW, HPC, HZC, JFC, MYC, OWC, SEC, SKY,	,						
. 30		SMC,WKC)		VOIC	ce and Data Wiring Installer Level II - 4603023109				
ELT	110	Circuits I5			(Offered at BLC, ELC, GTW, SMC)				
ELT	114	Circuits II5	EET	252	Electrical Construction II				
EET	154	Electrical Construction I AND	EET	253	Electrical Construction II Lab				
EET	155	Electrical Construction I Lab AND	ETT	114	Voice and Data Installer Level 2				
EET	252	Electrical Construction II AND	FTT	116	Fiber Ontice Systems 3				

Electrical Construction II Lab OR......2

Electrical Construction AND.....(3)

Electrical Construction Lab.....(4)

21-22

# Flectrical Motor Control Level I - 4603023079

		SMC,WKC)
ELT	110	Circuits I
ELT	114	Circuits II
EET	150	Transformers AND
EET	151	Transformers Lab AND
EET	264*	Rotating Machinery AND
EET	265*	Rotating Machinery Lab OR
EET	266	Rotating Machinery and Transformers AND(3
EET	267	Rotating Machinery and Transformers Lab(3
EET	250	National Electrical Code
EET	264*	Rotating Machinery AND(2
EET	265*	Rotating Machinery Lab AND(2
EET	270	Electrical Motor Controls I AND
EET	271	Electrical Motor Controls I Lab OR
EET	268	Rotating Machinery Electrical Motor Controls I AND(3
EET	269	Rotating Machinery Electrical Motor Controls I Lab (4
EET	272	Electrical Motor Controls II AND
EET	273	Electrical Motor Controls II Lab AND
EET	276	Programmable Logic Controllers AND
EET	277	Programmable Logic Controllers Lab OR
EET	278	Electrical Motor Controls II and PLCs AND(3
EET	279	Electrical Motor Controls II and PLCs Lab(4
CPU	150	Computer Fundamentals OR
CIS	100	Introduction to Computers(3
		Total Credits 35-38
* May l		in different combinations.  Ce and Data Wiring Installer Level II - 4603023109
		(Offered at BLC, ELC, GTW, SMC)
EET	252	Electrical Construction II
EET	253	Electrical Construction II Lab
ETT	114	Voice and Data Installer Level 2
ETT	116	Fiber Optics Systems
ETT	118	Residential Network Wiring
		Total Credits 14
	Voi	ce and Data Wiring Installer Level I - 4603023099
		(Offered at ASC, BLC, ELC, GTW, SMC)
rræ	154	Computer/Digital Literacy Course
EET	154	Electrical Construction I
EET	155	Electrical Construction I Lab
ETT	110	Voice and Data Installer Level 1

EET EET

EET

EET

EET

252

253

254

255

250

**Total Credits** 

ETT ETT	112 113	Basic Electrical Theory	WLD IMT	152 289	Basic Welding B			
		Accepted National Technicism Accepted 10	Tech	nical El	lectives:			
ETT ETT	, 8			Technical Electives:  Eighteen (18) credit hours of electives must be taken from the approved list. The list is not all inclusive. Other technical elective courses may be taken with approval of the program instructor/advisor.				
ETT ETT	123 199	Voice and Data Installer Technician Lab			Subtotal 18			
		Total Credits 11			Total Credits 64-68			
			**If co	ırses equa	ling 10 credits are taken, five (5) credits may be used as electives.			
M	II. In	dustrial Maintenance Technology	Tech	nical El	lectives List*:			
111		dustrial maintonanos roomiois5	ACR	100	Refrigeration Fundamentals			
	1 .	1. 6.1	ACR	101	Refrigeration Fundamentals Lab			
		ding of the requirements and opportunities in maintenance,	ACR	250	Cooling and Dehumidification			
		ractices, pride in workmanship, and an understanding of the	ACR	251	Cooling and Dehumidification Lab			
princi	iples and	accepted practices of the maintenance trade are covered in	ACR	260	Heating and Humidification			
this pi	rogram.	Students are trained to hold positions in factories, hospi-	ACR	261	Heating and Humidification Lab			
tals, hotels, etc., where multi-skilled maintenance personnel are needed.			BRX	210	Mechanical Blueprint Reading for Machinist			
			BRX	230	Mechanical Blueprint Reading3			
Included are courses in air conditioning, carpentry, electricity, machine tool, metal fabrication, and welding.			CAD	100	Introduction to Computer Aided Design OR			
1001, 1	inctar rai	reactor, and werding.			Modules CAD 1001 – 1004(3)			
Progr	ession ir	n the Industrial Maintenance Technology program is con-	COE	199	Cooperative Education			
		achievement of a grade of "C" or better in each technical	CAD	150	Introduction to Programming: CAD			
			EES	225	Programmable Logic Controllers			
	course and maintenance of a 2.0 cumulative grade point average or bet-			148	Electronic Drafting			
ter (o	n a 4.0 s	scale).	EET EET	150	Transformers			
			EET	151	Transformers Lab			
		Associate in Applied Science	EET	152	Electrical Drafting			
		noodiate in tipping determine	EET	254	Electrical Construction			
	Ir	dustrial Maintenance Technology - 4703037019	EET	255	Electrical Construction Lab			
			EET	264	Rotating Machinery			
E3.10	-	ffered at BLC, ELC, GTW, HEC, JFC, SKY, SMC,WKC)	EET	265	Rotating Machinery Lab			
ENG	101	Writing I	EET	276	Programmable Logic Controllers			
MAT	116	Technical Mathematics OR	EET	277	Programmable Logic Controllers Lab			
MAT	126	Technical Algebra & Trigonometry(3)	ELT	106	Mechanical Engineering Graphics II			
		Natural Sciences	ELT	122	Mechanical Power Transmission Systems			
		Heritage/Humanities	ELT	124	Mechanical Power Transmission Systems Lab			
		Social/Behavioral Sciences	ELT	243	Electric Power Distribution			
		Oral Communications	ELT	245	Electrical Machinery			
		Subtotal 18	ELT	250	Programmable Logic Controllers			
T 1	. 10		IMT	100	Welding for Maintenance			
lech	nical C		IMT	101	Welding for Maintenance Lab			
DDM	120	Digital Literacy	IMT	115	Maintenance Machining I			
BRX	120	Basic Blueprint Reading OR	IMT	116	Maintenance Machining I Lab			
BRX	110	Basic Blueprint Reading for Machinist OR(2)	IMT	120	Industrial Maintenance Rotating Machinery			
ELT	102	Blueprint Reading(2)	IMT	121	Industrial Maintenance Rotating Machinery Lab			
FPX	100	Fluid Power AND	IMT	130	Industrial Maintenance Electrical Concepts			
FPX	101	Fluid Power Lab OR	IMT	131	Industrial Maintenance Electrical Concepts Lab			
ELT	265	Applied Fluid Power(3)	IMT	150	Maintaining Industrial Equipment			
IMT	110	Industrial Maintenance Electrical Principles AND	IMT	151	Maintaining Industrial Equipment Lab			
IMT	111	Industrial Maintenance Electrical Principles Lab OR	IMT	198	Practicum			
ELT	110	Circuits I(5)	IMT	199	Cooperative Education			
IMT	150	Maintaining Industrial Equipment I	IMT	220	Industrial Maintenance Electrical Materia Controls I			

IMT

**ISX** 

220

221

230

231

240

241

250

251

280

281

290

289

200

101

IMT

IMT

IMT

EET

EET

FLT

IMT

IMT

EET

EET

IMT

IMT

WLD

WLD

151

220

221

270

271

244

120

264

265

100

101

120

121

Industrial Maintenance Electrical Motor Controls I AND ..... 3

Industrial Maintenance Electrical Motor Controls I Lab OR . 2

Electrical Motor Controls I AND ......(2)

Electrical Motor Controls I Lab OR .....(2)

Electrical Machinery and Controls OR .....(4)

Industrial Maintenance Rotating Machinery AND ......(3)

Industrial Maintenance Rotating Machinery Lab OR......(2)

Rotating Machinery AND .....(2)

Rotating Machinery Lab .....(2)

Shielded Metal Arc Welding AND.....(2)

Shielded Metal Arc Welding Fillet Lab OR .....(3)

Industrial Maintenance Electrical Motor Controls I Lab...... 2

Industrial Maintenance of PLCs......5

Industrial Maintenance Motor Control Concepts Lab....... 4

Maintaining Industrial Equipment II......2

Industrial Robotics and Robotic Maintenance ...... 4

ISX	100	Industrial Safety	IMT	100	Welding for Maintenance AND
MCX	100	Electrical Motor Controls I	IMT	101	Welding for Maintenance Lab OR
MCX	101	Electrical Motor Controls I Lab	WLD	120	Shielded Metal Arc Welding AND(2)
MCX	110	Electrical Motor Controls II	WLD	121	Shielded Metal Arc Welding Fillet Lab OR(3)
MCX	111	Electrical Motor Controls II Lab	WLD	152	Basic Welding B
MCX MCX	150 151	Motor Controls         3           Motor Controls Lab         2	IMT	289	Industrial Maintenance Technology Capstone
MGX	220	Rotating Machinery			Subtotal 20-32
MGX		Rotating Machinery Lab	Techi	nical E	Electives:
CMM		Fundamentals of Machine Tools-A			
CMM	112	Fundamentals of Machine Tools-B4			credit hours of electives must be taken from the approved
CMM	114	Fundamentals of Machine Tools			s not all inclusive. Other technical elective courses may be oproval of the program instructor/advisor.
CMM		Applied Machining I	taken	wiui ap	proval of the program histractor, advisor.
CMM	122	Applied Machining II			Subtotal 15
CMM	124	Applied Machining			Total Credits 49-53
CMM PLB	224 150	Advanced Industrial Machining			17 33
PLB	151	Basic Plumbing Skills	**If cou	ırses equ	aling 10 credits are taken, five (5) credits may be used as electives.
PHS	175	Applied Physics			<i>Certificates</i>
PHX	150	Introductory Physics			<i>661111164163</i>
PMX	100	Precision Measurement			Fluid Dower Mechanic 4702022120
WLD	123	Shielded Metal Arc Welding Groove Welds			Fluid Power Mechanic - 4703033129
	100	with Backing Lab	EDM		(Offered at BLC, BSC, ELC, HPC, MYC, OWC, SMC,)
WLD	100	Oxy-Fuel Systems	FPX	100	Fluid Power AND 3
WLD WLD	101 151	Oxy-Fuel Systems Lab         2           Basic Welding A         2	FPX ELT	101 265	Fluid Power Lab OR         2           Applied Fluid Power         (3)
ITS	211	Manufacturing Processes	MST	200	Advanced Hydraulic Systems AND
MST	200	Advanced Hydraulic Systems	MST	201	Advanced Hydraulic Systems Lab OR
MST	201	Advanced Hydraulic Systems Lab	MST	204	Advanced Pneumatic Systems AND(3)
MST	204	Advanced Pneumatic Systems	MST	205	Advanced Pneumatic Systems Lab(2)
MST	205	Advanced Pneumatic Systems Lab			Total Credits 8-10
		Diploma			
		υιρισιιία		Indus	trial Maintenance Machinists Mechanic - 4703033119
	Inc	dustrial Maintenance Technician - 4703034049	(Offe		SC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY,
(000			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
					SMC,WKC)
(Offe	ieu ui ASC	C, BLC, BSC, ELC, GTW, HPC, JFC, MYC, OWC, SEC, SKY, SMC,	BRX	120	Basic Blueprint Reading OR
		WKC)	BRX BRX	120 110	Basic Blueprint Reading OR
Gene	ral Educ	WKC)	BRX BRX	110 112	Basic Blueprint Reading OR         3           Basic Blueprint Reading for Machinist OR         (2)           Blueprint Reading for Machinist OR         (4)
	ral Educ	WKC)	BRX BRX ELT	110 112 102	Basic Blueprint Reading OR
Gene	ral Educ	WKC) cation:  Written Communication, Oral Communications, or	BRX BRX ELT IMT	110 112 102 100	Basic Blueprint Reading OR3Basic Blueprint Reading for Machinist OR(2)Blueprint Reading for Machinist OR(4)Blueprint Reading(2)Welding for Maintenance AND3
Gene	ral Educ	WKC)	BRX BRX ELT IMT IMT	110 112 102 100 101	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2
Gene	ral Educ 1 =	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT WLD	110 112 102 100 101 120	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)
Gene Area Area MAT	ral Educ 1 = 2 = 116	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT	110 112 102 100 101	Basic Blueprint Reading OR
Gene Area	ral Educ 1 = 2 =	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT WLD WLD	110 112 102 100 101 120 121	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)
Gene Area Area MAT	ral Educ 1 = 2 = 116	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT WLD WLD WLD	110 112 102 100 101 120 121 152	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5
Gene Area Area MAT MAT	ral Educe 1 = 2 = 116 126	WKC)  Cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT WLD WLD WLD IMT IMT CMM	110 112 102 100 101 120 121 152 115 116 114	Basic Blueprint Reading OR
Gene Area Area MAT MAT	ral Educ 1 = 2 = 116	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT IMT WLD WLD WLD IMT IMT CMM CMM	110 112 102 100 101 120 121 152 115 116 114	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)
Gene Area Area MAT MAT	ral Educe 1 = 2 = 116 126	WKC)  Cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM	110 112 102 100 101 120 121 152 115 116 114 110	Basic Blueprint Reading OR
Gene Area MAT MAT	ral Educ 1 = 2 = 116 126	WKC) cation:  Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3
Gene Area  Area  MAT  MAT  Techn  BRX	ral Educ 1 = 2 = 116 126 nical Co	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM	110 112 102 100 101 120 121 152 115 116 114 110	Basic Blueprint Reading OR
Gene Area MAT MAT Techi BRX BRX BRX ELT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT	110 112 102 100 101 120 121 152 115 116 114 110 112	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       3         Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Fluid Power AND       3	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX FPX	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       3         Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2	BRX BRX ELT IMT IMT WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX FPX ELT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       3         Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)	BRX BRX ELT IMT IMT WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX FPX ELT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX FPX ELT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       3         Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3         Industrial Maintenance Electrical Principles Lab OR       2	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21         Strial Maintenance Electrical Mechanic - 4703033159         ISC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)         Fluid Power AND       3
Gene Area MAT MAT Techi BRX BRX BRX ELT FPX FPX ELT IMT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151 <b>Indus</b>	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21         Strial Maintenance Electrical Mechanic - 4703033159         ISC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)         Fluid Power AND       3         Fluid Power Lab OR       2
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT ELT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities       3         Technical Mathematics OR       3         Technical Algebra & Trigonometry       (3)         Subtotal       6         Ore:       3         Digital Literacy       3         Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3         Industrial Maintenance Electrical Principles Lab OR       2         Circuits I       (5)         Maintaining Industrial Equipment I AND       3         Maintaining Industrial Equipment I Lab       2	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21         Strial Maintenance Electrical Mechanic - 4703033159         ISC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220	WKC)         Cation:         Written Communication, Oral Communications, or Heritage/Humanities         Heritage/Humanities         Technical Mathematics OR         3         Technical Algebra & Trigonometry         (3)         Subtotal         6         Ore:         Digital Literacy         3         Basic Blueprint Reading OR         3         Busprint Reading for Machinist OR         (2)         Blueprint Reading       (2)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3         Industrial Maintenance Electrical Principles Lab OR       2         Circuits I       (5)         Maintaining Industrial Equipment I AND       3         Maintaining Industrial Equipment I Lab       2         Industrial Maintenance Electrical Motor Controls I AND       3	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT  (Offe	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus  red at A	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21         Strial Maintenance Electrical Mechanic - 4703033159         ISC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC, WKC)         Fluid Power AND       3         Fluid Power Lab OR       2
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT  (Offe	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus red at A	Basic Blueprint Reading OR       3         Basic Blueprint Reading for Machinist OR       (2)         Blueprint Reading for Machinist OR       (4)         Blueprint Reading       (2)         Welding for Maintenance AND       3         Welding for Maintenance Lab OR       2         Shielded Metal Arc Welding AND       (2)         Shielded Metal Arc Welding Fillet Lab OR       (3)         Basic Welding B       (5)         Maintenance Machining I AND       2         Maintenance Machining I Lab OR       5         Fundamentals of Machine Tools OR       (7)         Fundamentals of Machine Tools -A AND       (3)         Fundamentals of Machine Tools -B       (4)         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Total Credits       19-21         Strial Maintenance Electrical Mechanic - 4703033159         ISC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY, SMC,WKC)         Fluid Power AND       3         Fluid Power Lab OR       2         Applied Fluid Power       (3)         Industrial Maintenance Electrical Principles AND       3
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT IMT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT  (Offee	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus red at A  100 101 265 110 111 110 220	Basic Blueprint Reading OR
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT IMT IMT EET EET	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270 271	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT  (Offee	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus red at A  100 101 265 110 111 110 220 221	Basic Blueprint Reading OR
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT IMT IMT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT IMT IMT IMT IMT ELT IMT IMT EET	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus ared at A  100 101 265 110 111 110 220 221 270	Basic Blueprint Reading OR
Gene Area  Area MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT IMT EET EET ELT	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270 271 244	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT IMT IMT IMT IMT ELT IMT EET EET	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus  red at A  100 101 265 110 111 110 220 221 270 271	Basic Blueprint Reading OR
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT ELT IMT IMT IMT IMT IMT IMT IMT IMT IMT IM	ral Educ 1 =  2 =  116 126  nical Co  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270 271 244 120	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT IMT IMT IMT  FPX FPX ELT IMT IMT ELT IMT EET ELT	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus  red at A  100 101 265 110 111 110 220 221 270 271 244	Basic Blueprint Reading OR
Gene Area  MAT MAT  Techi  BRX BRX BRX ELT FPX FPX ELT IMT IMT IMT IMT IMT IMT IMT IMT IMT IM	ral Educ 1 =  2 =  116 126  120 110 112 102 100 101 265 110 111 110 150 151 220 221 270 271 244 120 121	Written Communication, Oral Communications, or Heritage/Humanities	BRX BRX BRX ELT IMT WLD WLD WLD IMT IMT CMM CMM IMT IMT IMT IMT IMT IMT ELT IMT EET EET	110 112 102 100 101 120 121 152 115 116 114 110 112 150 151  Indus  red at A  100 101 265 110 111 110 220 221 270 271	Basic Blueprint Reading OR

EET	264	Rotating Machinery AND(2)	ITE	250	Team Dynamics and Problem Solving
EET	265	Rotating Machinery Lab OR(2)	ISX	100	Industrial Safety
IMT	280	Advanced Programmable Logic Controllers AND(3)	MAT	116	Technical Mathematics
IMT	281	Advanced Programmable Logic Controllers Lab OR(2)	PHX	150	Introduction to Physics
EET	276	Programmable Logic Controllers AND(2)	QMS	101	Introduction to Quality Systems
EET	277	Programmable Logic Controllers Lab(2)	TEC	200	Technical Communications
		Total Credits 12-15			Computer/Digital Literacy0-3
					Total Credits 27-30
	Land	Installation on a Machania Level I 4700000100			
		lustrial Maintenance Mechanic Level I - 4703033139	D.		rk and Dia Maintananaa Taahniaian Laval L 4702022200
(Offe	ered at .	ASC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY,	rı	G22MOI	rk and Die Maintenance Technician Level I – 4703033209
		SMC,WKC)			(Offered at OWC, SMC)
FPX	100	Fluid Power AND3	IMT	115	Maintenance Machining I AND
FPX	101	Fluid Power Lab OR	IMT	116	Maintenance Machining I Lab OR5
ELT	265	Applied Fluid Power(3)	CMM	114	Fundamentals of Machine Tools OR(7)
IMT	110	Industrial Maintenance Electrical Principles AND	CMM	110	Fundamentals of Machine Tools-A AND(3)
IMT	111	Industrial Maintenance Electrical Principles OR2	CMM	112	Fundamentals of Machine Tools-B(4)
ELT	110	Circuits I(5)	IMT	100	Welding for Maintenance AND
IMT	150	Maintaining Industrial Equipment I	IMT	101	Welding for Maintenance Lab
IMT	151	Maintaining Industrial Equipment I Lab	IMT	260	Presswork and Die Maintenance
		Total Credits 13-15			Total Credits 19
	امدا	ustrial Maintananaa Maaharia Laval II 4700000140	Dr	00011101	k and Dia Maintananaa Taahnisian Laval II 4702022210
	Ina	ustrial Maintenance Mechanic Level II - 4703033149	rı	essmoi	k and Die Maintenance Technician Level II – 4703033219
(Offe	ered at .	ASC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SEC, SKY,			(Offered at OWC, SMC)
ω		SMC,WKC)	IMT	115	Maintenance Machining I AND
BRX	120	Basic Blueprint Reading OR	IMT	116	Maintenance Machining I Lab OR 5
BRX	110	Basic Blueprint Reading for Machinist OR(2)	CMM	114	Fundamentals of Machine Tools OR(7)
BRX	112	Blueprint Reading for Machinist OR(4)	CMM	110	Fundamentals of Machine Tools-A AND(3)
ELT	102	Blueprint Reading(2)	CMM	112	Fundamentals of Machine Tools-B(4)
FPX	100	Fluid Power AND	IMT	100	Welding for Maintenance AND
FPX	101	Fluid Power Lab OR2	IMT	101	Welding for Maintenance Lab
ELT	265	Applied Fluid Power(3)	IMT	260	Presswork and Die Maintenance
IMT	110	Industrial Maintenance Electrical Principles AND 3	FPX	100	Fluid Power3
IMT	111	Industrial Maintenance Electrical Principles OR 2	FPX	101	Fluid Power Lab
ELT	110	Circuits I(5)	IMT	110	Industrial Maintenance Electrical Principles
IMT	100	Welding for Maintenance AND	IMT	111	Industrial Maintenance Electrical Principles Lab
IMT	101	Welding for Maintenance Lab OR	IMT	220	Industrial Maintenance Electrical Motor Controls I 3
WLD	120	Shielded Metal Arc Welding AND(2)	IMT	221	Industrial Maintenance Electrical Motor Controls I Lab 2
WLD	121	Shielded Metal Arc Welding Fillet Lab OR(3)			Total Credits 34
WLD	152	Basic Welding B(5)			
IMT	115	Maintenance Machining I AND		Ladua	trial Maintenance Dehatics Technician (170000000
IMT	116	Maintenance Machining I Lab OR		inaus	trial Maintenance Robotics Technician – 4703033239
CMM		Fundamentals of Machine Tools OR(7)	IMT	110	Industrial Maintenance Electrical Principles AND
CMM		Fundamentals of Machine Tools-A AND(3)	IMT	111	Industrial Maintenance Electrical Principles Lab OR 2
CMM		Fundamentals of Machine Tools-B(4)	ELT	110	Circuits I(5)
Civilvi	112	Total Credits 22-26	FPX	100	Fluid Power AND
			FPX	101	Fluid Power Lab OR
			ELT	265	Applied Fluid Power(3)
		Electro-hydraulic Technician - 4703033169	IMT	220	Industrial Maintenance Electrical Motor Controls I AND 3
		(Offered at BLC, GTW, HPC, JFC, MYC, OWC, SMC)	IMT	221	Industrial Maintenance Electrical Motor Control I Lab OR $\dots 2$
IMT	110	Industrial Maintenance Electrical Principles AND	EET	270	Electrical Motor Controls I AND(2)
IMT	111	Industrial Maintenance Electrical Principles Lab OR 2	EET	271	Electrical Motor Controls I Lab OR(2)
ELT	110	Circuits I(5)	ELT	244	Electrical Machinery and Controls OR(4)
FPX	100	Fluid Power AND	IMT	120	Industrial Maintenance Rotating Machinery AND(3)
FPX	101	Fluid Power Lab OR	IMT	121	Industrial Maintenance Rotating Machinery Lab(2)
ELT	265	Applied Fluid Power(3)	IMT	280	Advanced Programmable Logic Controllers AND 3
MST	206	Electro-hydraulic	IMT	281	Advanced Programmable Logic Controllers Lab OR 2
MST	207	Electro-hydraulic Lab	EET	276	Programmable Logic Controllers AND(2)
11101	207	Total Credits 13-15	EET	277	Programmable Logic Controllers Lab(2)
		Tour credits	IMT	150	Maintaining Industrial Equipment I
		01 1 10 1 1700000470	IMT	151	Maintaining Industrial Equipment I Lab
		Chemical Operator - 4703033179	IMT	200	Industrial Robotic and Robotic Maintenance
		(Offered at MYC,WKC)			Total Credits 24-29
CHE	140	Introductory General Chemistry			
CHE	145	Introductory General Chemistry Lab			
GEN	276	Employment and Professional Skills			
IMT	140	Industrial Mechanics			
IMT	141	Industrial Mechanics Lab			
	• •				

# **Marine Technology**

The Marine Technology curriculum is designed to provide a strong theoretical base for employees of the inland marine industry. The program introduces students to basic inland marine principles and concepts by applying contemporary skills in a variety of employment positions based on industry needs. It provides students with a strong foundation of managerial and operational knowledge by using a problem-solving approach in state-of-the-art classroom and work experience environments. It builds leadership, management, communication skills, and professional ethics, which serve as a foundation for future development and career success. The program contains core technical courses and advanced courses in each track to address the employment needs of the domestic market.

# Associate in Applied Science

#### Marine Technology – 4903997019 (Offered at WKC)

ENG	101	Writing I	
MAT	116	Technical Mathematics or Higher Level Quantitative	
		Reasoning Course	
GEN	140	Development of Leadership	
		Natural Sciences	
		Heritage/Humanities	
		Subtotal 15	
Techi	nical Co	ore (required for all tracks):	

 $Introduction \ to \ Marine \ Technology.....3$ 

recunical Core (required for all tracks):
Digital Literacy

BAS

MRN

160

100

MRN	101	Anatomy of a Towboat	3
MRN	102	Basic Marine Safety	3
MRN	103	Applied Marine Weather	3
MRN	104	Marine Crew Wellness	3
MRN	203	Environmental Protection Rules	3
HSM	100	Introduction to Homeland Security	3
HSM	110	Introduction to Emergency Management	3
		Subtotal	27-30

### Wheelhouse Management Track – 490399701

		(Offered at WKC)	
BAS	120	Personal Finance	3
BAS	283	Principles of Management	3
BAS	287	Supervisory Management	3
MRN	200	Shipboard Deck Operations	3
MRN	201	Rules of the Road	3
MRN	202	Piloting and Navigation	3
		Track Subtotal	18
		Track Total	60-63

#### Marine Engineering Track – 490399702

		(Offered atWKC)	
MRN	204	Marine Electrical Systems	5
MRN	206	Marine Diesel	5
MRN	212	Marine Fluid Systems	5
MRN	214	Marine Refrigeration Systems	4
		Track Subtotal	19
		Track Total	61-64

#### Marine Logistics Operations Track – 490399703

(Offered at WKC)				
BAS	120	Personal Finance	3	
BAS	283	Principles of Management	3	
BAS	289	Operations Management		

MRN	208	Inland River Systems	3
		Inland River Systems	
MRN		Applied Marine Operations	
MRN	210	Intermodal Transportation	3
		Track Subtotal	18
		Track Total	60-63
		Marina Culinami Caminaa Traak	400200704

#### Marine Culinary Services Track – 490399/04

		Track Total	61-64
		Track Subtotal	19
MRN	208	Inland River Systems	3
CUL	280	Cost and Control	3
CUL	270	Human Relations Management	3
CUL	230	Basic Nutrition	3
CUL	200	Sanitation and Safety	2
CUL	100	Introduction to Culinary Arts	2
BAS	120	Personal Finance	3

#### **Certificates**

#### Marine Technology Business – 4903993019 (Offered at WKC)

BAS

BAS

BAS

BAS

MRN

MRN

MRN

MRN

MRN

MRN

MRN

MRN

MRN

**CUL** CUL CUL CUL MRN MRN 120

160

283

289

208

209

210

100

101

102

103 104

203

Total	21_24
Intermodal Transportation	3
Applied Marine Operations	3
Inland River Systems	
Operations Management	3
Principles of Management	3
Introduction to Business	3
Personal Finance	3
Digital Literacy	

#### Marine Industry - 4903993029

(Offered at WKC)	
Digital Literacy	0-3
Introduction to Marine Technology	
Anatomy of a Towboat	
Basic Marine Safety	
Applied Marine Weather	3
Marine Crew Wellness	3
Environmental Protection Rules	3
Total	18-21

#### Marine Culinary - 4903993039

	Digital Literacy	0-3
100	Introduction to Culinary Arts	2
200	Sanitation and Safety	2
230	Basic Nutrition	3
280	Cost and Control	3
100	Introduction to Marine Technology	3
208	Inland River Systems	
	Total	16-19

# Masonry

The Masonry program prepares students for employment in the construction of houses, commercial structures and other projects involving brick, stone and other masonry materials. This program includes blueprint reading, introductory, intermediate and advanced masonry projects. Cost estimating, preparing materials lists, and practical experiences are included.

Progression in the Masonry program is contingent upon achievement of a grade of "C" or better in each technical course and maintenance of a 2.0 cumulative grade point average.

		Diploma			Construction Bricklayer - 4601013039
		Construction Macon ACO1014010	BRX	220	(Offered at BLC, BSC, JFC, MYC, SMC) Blueprint Reading for Construction
		Construction Mason - 4601014019	ISX	100	Industrial Safety OR
		(Offered at BLC, BSC, JFC, MYC, SMC)	ISX	101	Introduction to Industrial Safety(3)
		cation: 6-9 credit hour requirement for diplomas	MSY	105	Introductory Masonry
in ar	eas 1-3		MSY	115	Intermediate Masonry
Area 1	=	Written Communication, Oral Communications,	MSY	199	Cooperative Education OR
A 2	_	or Heritage/Humanities	MSY	198	Practicum(3)
Area 2	_	Social/Behavioral Sciences, Natural Sciences, or	MSY MSY	205 215	Advanced Masonry       3         Masonry Lab       3
		Subtotal 6	MSY	225	Brick Construction
			MSY	235	Special Techniques in Brick Construction
Tech	nical Co	ourses:	MSY	245	Anchors and Reinforcement
		Computer/Digital Literacy course OR	MSY	275	Fireplace Construction
DDW	220	demonstrated competency	MSY	299	Cooperative Education OR
BRX ISX	220 100	Blueprint Reading for Construction	MSY	298	Practicum(3)
ISX	100	Industrial Safety OR			Total Credits 36
MSY	105	Introductory Masonry	Elect	tives (C	Optional):
MSY	115	Intermediate Masonry	MSY	291	Special Problems III(1-3)
MSY	199	Cooperative Education OR			
MSY	198	Practicum(3)			Stone Mason - 4601013049
MSY	205	Advanced Masonry			(Offered at BLC, BSC, JFC, MYC, SMC)
MSY MSY	215 225	Masonry Lab	BRX	220	Blueprint Reading for Construction
MSY	235	Brick Construction	MSY	105	Introductory Masonry
MSY	245	Anchors and Reinforcement	MSY	115	Intermediate Masonry
MSY	275	Fireplace Construction	MSY MSY	205 215	Advanced Masonry
MSY	299	Cooperative Education OR	MSY	245	Masonry Lab         3           Anchors and Reinforcement         3
MSY	298	Practicum(3)	MSY	253	Masonry Floors and Steps
		Technical Electives*	MSY	257	Stone
		Subtotal 42-45	MSY	275	Fireplace Construction
		Total Credits 48-51			Total Credits 27
MSY MSY MSY MSY	251 253 255 257	Concrete Finishing3Masonry Floors and Steps3Glass Blocks and Tile3Stone3	grour	nded ma	Mechatronic Systems  ic Systems Operating Technician will function as a well- chine operator in a complex system, with responsibility for
MSY	291	ptional): Special Problems III(3)	efficie	ent oper	ration of the equipment with minimal down-times.
		Certificates			Certificate
		Bricklayer Trainee - 4601013019			Mechatronic Systems Operating Technician:
		(Offered at BLC, BSC, JFC, MYC, SMC)			Siemens International Mechatronic Systems
ISX	100	Industrial Safety OR			•
ISX	101	Introduction to Industrial Safety(3)			Certification Level I - 1500003179
MSY	105	Introductory Masonry			(Offered at JFC, OWC, SKY,WKC)
MSY	115	Intermediate Masonry	MS	110	Mechatronic Systems Electrical Components
MSY MSY	199 198	Cooperative Education OR         3           Practicum         (3)	MS	120	Mechatronic Systems Mechanical Components
MSY	205	Advanced Masonry	MS MS	130 150	Mechatronic Systems Hydraulic / Pneumatic Components 4 Mechatronic Systems Programmable Controllers 4
MSY	215	Masonry Lab	1410	150	Total Credits 16
MSY	225	Brick Construction			
MSY	235	Special Techniques in Brick Construction	Elect	tives:	
MSY	245	Anchors and Reinforcement	MS	160	Systems Troubleshooting I
		Total Credits 27	MS	190	Systems Thinking
ISX ISX MSY MSY MSY	100 101 105 215 291	Bricklayer Helper - 4601013029 (Offered at BLC, BSC, JFC, MYC, SMC) Industrial Safety OR			

# **Medical Administrative Services**

#### Certificate

#### Medical Coding and Reimbursement Specialist - 5107033029

(Offered at JFC, SKY)

The Medical Coding and Reimbursement Specialist program insures that medical services are correctly identified on insurance claim forms. The individual codes the diagnoses and procedures performed, submits claim forms, researches and corrects insurance claim rejections. This program prepares graduates to file insurance forms for reimbursement and to code properly using the ICD, CPT and the HCPCS codes for patient diagnoses and procedures. Students are provided with an in-depth knowledge of medical terminology, anatomy, and coding procedures.

AHS	109	Introduction to Body Structure and Functions OR	4
BIO	130	Aspects of Human Biology OR	(3)
BIO	135	Basic Anatomy and Physiology with Laboratory OR	
BIO	137	Human Anatomy and Physiology I AND	(4)
BIO	139	Human Anatomy and Physiology II	
AHS	115	Medical Terminology OR	
CLA	131	Medical Terminology from Greek and Latin OR	
MIT	103	Medical Office Terminology	
		Computer/Digital Literacy	
MBS	100	Introduction to the Health Care Field OR	
HIT	100	Introduction to Healthcare Delivery Systems	
MBS	110	Medical Insurance and Claims Processing	
MBS	120	Coding for Reimbursement OR	
MIT	204	Medical Coding AND	
MIT	205	Advanced Medical Coding	
MBS	199	Internship	
		Total Credits	22 29

# **Medical Assisting**

A medical assistant is an integral member of the health care delivery team, qualified by education and experience to work in the administrative office, the examining room and the physician's laboratory. Individuals in this unique position will be involved in many of the following skills:

General: project a professional manner and image, adhere to legal and ethical principles, use medical terminology effectively, and use effective and correct verbal and written communication.

Administrative: schedule, coordinate and monitor appointments, perform telephone and written communications, arrange hospital admissions, manage medical records, process insurance claim forms, manage office financial records, and maintain inventory.

Clinical: prepare patient for examination procedures and treatment, record medical histories, take vital signs, chart patient information, administer medications and injections, provide patient instruction and education, perform venipunctures, collect and prepare other specimens, perform electrocardiograms (ECG), sterilize instruments, and perform basic laboratory tests.

With additional education, the medical assisting graduate may perform limited radiography.

The Medical Assistant is a vital liaison between the doctor and patient and plays an important role in diagnosis and treatment. The many different roles assumed in this profession assure a fast moving and challenging career.

Progression in the Medical Assisting program is contingent upon achievement of a grade of "C" or above in each required course and maintenance of a 2.0 cumulative grade-point average or above (on a 4.0 scale).

Clinical orientation and externship are "non-paid work assignments." CPR requirements must be successfully completed prior to enrolling in the first clinical externship and must be kept current throughout the program.

Transportation to the physician's offices/community agencies is the responsibility of each student.

According to the Commission on Accreditation of Allied Health Education Programs (CAAHEP), all accredited medical assisting program related courses must be taught by approved faculty and meet the requirements according to CAAHEP standards and guidelines.

The Medical Assisting programs at the colleges listed below are accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) on the recommendation of the Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs 1361 Park Street, Clearwater FL 33756, 727/210-2350 www.caahep.org

Bluegrass CTC (AAS and Diploma), Henderson CC (AAS), Jefferson CTC (Diploma), and Maysville CTC - Maysville & Rowan Campuses (Diploma).

# Associate in Applied Science

#### Medical Assisting - 5108017029

(Offered at BLC, GTW, HEC, JFC)

#### **Required General Education:**

MAT	105	Mathematics for Business OR	. 3
MAT	110	Applied Mathematics(	(3)
		OR Higher Level Quantitative Reasoning Course(	(3)
BIO	135	Basic Anatomy and Physiology with Laboratory OR	. 4
BIO	137	Human Anatomy & Physiology I AND(	(4)
BIO	139	Human Anatomy & Physiology II(	(4)
PSY	110	General Psychology	. 3
ENG	101	Writing I	. 3
		Heritage/Humanities	. 3
		Subtotal 16-	20

# Additional Suggested General Education Courses (Not Required)

LING	102	vv rung n	(J)
COM	181	Basic Public Speaking OR	(3)
COM	252	Introduction to Interpersonal Communications	(3)
Supp	ort Class	ses	
AHS	115	Medical Terminology OR	. 3
CLA	131	Medical Terminology from Greek and Latin OR	(3)
MIT	103	Medical Office Terminology	(3)
CPR	100	CPR for Health Care Professionals OR	. 1
KHP	190	First Aid and Emergency Care	(2)
		Digital Literacy	. 3
		Subtotal 7	7-8

NOTE: Credit for CPR  $100~{\rm may}$  be granted with proof of CPR certification for Health Care Professionals.

#### **Core Courses**

MAI	105	Introduction to Medical Assisting
MAI	120	Medical Assisting Laboratory Techniques I
MAI	140	Medical Assisting Clinical Procedures I
MAI	150	Medical Assisting Administrative Procedures I OR 3

MIT MAI	217 170	Medical Office Procedures(3) Dosage Calculations			Certificates
MAI	200	Pathophysiology for the Medical Assistant		Mad:	and Office Incomesses Dillion and Ondings E100010040
MAI	220	Medical Assisting Laboratory Techniques II		Meai	cal Office Insurance Billing and Coding - 5108013049
MAI	230	Medical Insurance OR			(Offered at BLC, HEC, JFC, MYC, SEC, SMC)
MIT	104	Introduction to Medical Insurance(3)	AHS	115	Medical Terminology OR
MAI	240	Medical Assisting Clinical Procedures II	AHS	120	Medical Terminology OR(1)
MAI	250	Medical Assisting Administrative Procedures II OR	CLA	131	Medical Terminology from Greek and Latin OR(3)
MIT	227	Medical Office Software(3)	MIT	103	Medical Office Terminology(3)
MAI	270 281	Pharmacology for the Medical Assistant	BIO	135 137	Basic Anatomy and Physiology with Laboratory OR
MAI MAI	282	Medical Assisting Practicum       1         Medical Assisting Externship       3	BIO BIO	139	Human Anatomy & Physiology I AND         (4)           Human Anatomy & Physiology II         (4)
141711	202	Subtotal 38	MAI	150	Medical Assisting Administrative Procedures I OR 3
			MIT	217	Medical Office Procedures(3)
		Total Credits 61-66	MAI	230	Medical Insurance OR
Elast	: T :4.		MIT	104	Introduction to Medical Insurance(3)
	ive List:	Verboarding (1)	MAI	250	Medical Assisting Administrative Procedures II OR 3
OST Mai	260	Keyboarding	MIT	227	Medical Office Software(3)
MAI	299	Selected Topics: Medical Assisting: (Topic)(1-4)	MAI	281	Medical Assisting Practicum
		- ·			Digital Literacy
		Diploma			Total Credits 18-24
		Medical Assisting - 5108014020		Me	edical Office Administrative Assistant - 5108013069
		(Offered at BLC, HEC, JFC, MYC, SEC, SMC)			(Offered at BLC, HEC, JFC, MYC, SEC, SMC)
~			BIO	135	Basic Anatomy and Physiology with Laboratory OR4
	ral Educ		BIO	137	Human Anatomy & Physiology I AND(4)
BIO	135	Basic Anatomy and Physiology with Laboratory OR4	BIO	139	Human Anatomy & Physiology II(4)
BIO BIO	137 139	Human Anatomy & Physiology I AND(4)	AHS	115	Medical Terminology OR
ENG	101	Human Anatomy & Physiology II         (4)           Writing I OR         3	AHS	120	Medical Terminology OR(1)
TEC	200	Technical Communications(3)	CLA	131	Medical Terminology from Greek and Latin OR(3)
		Subtotal 7-11	MIT	103	Medical Office Terminology(3)
			MAI	105	Introduction to Medical Assisting
Supp	ort Class	ses	MAI	150 217	Medical Assisting Administrative Procedures I OR
AHS	115	Medical Terminology OR	MIT MAI	250	Medical Office Procedures
AHS	120	Medical Terminology OR(1)	MIT	227	Medical Office Software(3)
CLA	131	Medical Terminology from Greek and Latin OR(3)	MAI	281	Medical Assisting Practicum
MIT	103	Medical Office Terminology			Digital Literacy
CPR KHP	100 190	First Aid and Emergency Care(2)			Total Credits 18-24
KIII	170	Digital Literacy			
		Subtotal 5-8			Electrocardiograph Technician - 5108013149
					(Offered at JFC, MYC)
		CPR 100 may be granted with proof of CPR certification for Health	BIO	135	Basic Anatomy and Physiology with Laboratory OR4
	ofessionals.		BIO	137	Human Anatomy & Physiology I AND(4)
	Courses		BIO	139	Human Anatomy & Physiology II(4)
MAI	105	Introduction to Medical Assisting	AHS	115	Medical Terminology OR
MAI	120	Medical Assisting Laboratory Techniques I	AHS	120	Medical Terminology OR(1)
MAI MAI	140 150	Medical Assisting Clinical Procedures I	CLA	131	Medical Terminology from Greek and Latin OR(3)
MIT	217	Medical Office Procedures(3)	MIT	103	Medical Office Terminology(3)
MAI	170	Dosage Calculations	CPR KHP	100 190	CPR for Healthcare Professionals OR
MAI	200	Pathophysiology for the Medical Assistant	MAI	140	First Aid and Emergency Care(2) Medical Assisting Clinical Procedures I OR4
MAI	220	Medical Assisting Laboratory Techniques II	MAI	240	Medical Assisting Clinical Procedures II(4)
MAI	230	Medical Insurance OR	MAI	281	Medical Assisting Practicum
MIT	104	Introduction to Medical Insurance(3)			Total Credits 11-18
MAI	240	Medical Assisting Clinical Procedures II			
MAI	250	Medical Assisting Administrative Procedures II OR			for CPR 100 may be granted with proof of CPR certification for Health
MIT	227	Medical Office Software	Care P	rofession	als.
MAI MAI	270 281	Pharmacology for the Medical Assistant			
MAI	282	Medical Assisting Practicum 1 Medical Assisting Externship 3			
	-3-	Subtotal 38			
		Total Credits 50-57			
Elect	ive Cour	ses:			
OST	100	Keyboarding         (1)			
MAI	260	Medical Transcription(3)			
MAI	299	Selected Topics: Medical Assisting: (Topic) (1-4)			

#### Medical Office Limited Radiography - 5108013139

	400	(Offered at JFC)
MOR	100	Medical Office Limited Radiography6
MOR	115	Medical Office Limited Radiography Lab
MOR	117	Advanced Medical Office Limited Radiography6
MOR	119	Advanced Medical Office Limited Radiography Clinical 3
		Total Credits 18
		Phlebotomist - 5108013109
		(Offered at GTW, HEC, MYC, SEC)
PHB	100	Phlebotomy6
PHB	155	Phlebotomy Clinical
		Total Credits 8-9
		OR
MAI	120	Medical Assisting Laboratory Techniques I
PHB	155	Phlebotomy Clinical
		Total Credits 5-6
		OR
MAI	120	Medical Assisting Laboratory Techniques I
PHB	152	Phlebotomy: Clinical Experience
		Total Credits 4

NOTE: See http://www.phlebotomy.com/CertAgencies.html for a directory of phlebotomy certification agencies and examination requirements.

# **Medical Laboratory Technician**

The Medical Laboratory Technician (MLT) program provides students with the opportunity to acquire the necessary skills to work under the supervision of a registered clinical scientist or pathologist in a clinical laboratory, hospital, or other health agency.

The MLT student learns to collect specimens from the patient and perform laboratory tests in all areas of the clinical laboratory to include immunohematology, clinical chemistry, hematology, microbiology, serology and urinalysis.

Students enrolled in the MLT program must achieve a minimum grade of "C" in each of the medical laboratory technician courses.

Upon completion of the program, the graduate is eligible for the national certification examination as a medical laboratory technician.

The following Associate Degree Medical Laboratory Technician Programs are fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Address and telephone number of NAACLS are: NAACLS, 5600 North River Road, Suite 720, Rosemont, Illinois 60018. Telephone: 773.714.8880 Fax: 773.714.8886 (Website): http://www.naacls.org (E-mail): info@naacls.org.

Henderson Community College, Madisonville Community College, Somerset Community College, Southeast Kentucky Community and Technical College, West Kentucky Community and Technical College, and Jefferson Community and Technical College (Accreditation Pending).

All program graduates take the national board exam, called the Board of Certification of the American Society of Clinical Pathology, after having met their academic and laboratory educational requirements. If successful, graduates may then use the initials "MLT (ASCP)" indicating proficiency in laboratory medicine.

MLT 119

### Associate in Applied Science

#### Medical Laboratory Technician - 5110047049

		MEGUIGAI LADUI ALUI Y TEGIIIIIGIAII - 31 TUU4/U43	
	(	Offered at HEC, JFC, MDC, MYC, SEC, SMC,WKC)	
Gene	ral Edu	cation Courses:	
ENG	101	Writing I	
MAT	110	Applied Mathematics OR	
		Higher Quantitative Reasoning course(3)	
CHE	130	Introductory General and Biological Chemistry OR4	
		Higher Chemistry course(3)	
PSY	110	General Psychology	
		Heritage/Humanities	
COM	181	Basic Public Speaking OR	
COM	252	Introduction to Interpersonal Communication(3)	
		Subtotal 18-19	
Core	Course	·s:	
		Digital Literacy 0-3	
BIO	135	Basic Anatomy & Physiology with Laboratory*4	
MLT	112	Urinalysis	
MLT	115	Serology	
MLT	215	Hematology I AND4	
MLT	216	Hematology II OR	
MLT	217	Fundamentals of Hematology AND(3)	
MLT	218	Clinical Hematology(4)	
MLT	225	Immunohematology I AND	
MLT	226	Immunohematology II OR	
MLT	227	Immunohematology	
MLT	278	Practicum (+)	
IVILI	270		
		Pathway 1	
		Pathway 2	
		Subtotal 23-27	
*BIO 1	37 & BIO	139 may be substituted for BIO 135	
*BIO 1	37 & BIO	139 may be substituted for BIO 135  Pathway I-511004703	
*BIO 1	37 & BIO	Pathway I-511004703	
		Pathway I-511004703 (Offered at SMC, SEC, HEC)	
BIO	225	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT	225 101	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB	225 101 151	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB	225 101 151 152	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT	225 101 151 152 205	Pathway I-511004703 (Offered at SMC, SEC, HEC) Medical Microbiology	
BIO MLT PHB PHB MLT MLT	225 101 151 152 205 206	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT	225 101 151 152 205	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT	225 101 151 152 205 206	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT	225 101 151 152 205 206 233	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT MLT	225 101 151 152 205 206 233 234	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT MLT	225 101 151 152 205 206 233 234	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT MLT	225 101 151 152 205 206 233 234	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I         64-68	
BIO MLT PHB PHB MLT MLT MLT MLT	225 101 151 152 205 206 233 234	Pathway I-511004703         (Offered at SMC, SEC, HEC)         Medical Microbiology       4         Introduction to the Clinical Laboratory AND       3         Phlebotomy for the Health Care Worker AND       1         Phlebotomy: Clinical Experience       1         Clinical Microbiology I AND       3         Clinical Chemistry I AND       3         Clinical Chemistry II       2         Practicum II       4         Subtotal       23         Total Credit Hours – Pathway I       64-68         Pathway II-511004704	
BIO MLT PHB PHB MLT MLT MLT MLT	225 101 151 152 205 206 233 234 279	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I           64-68           Pathway II-511004704           (Offered at JFC, MDC, MYC,WKC)	
BIO MLT PHB PHB MLT MLT MLT MLT MLT	225 101 151 152 205 206 233 234 279	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I         64-68           Pathway II-511004704           (Offered at JFC, MDC, MYC, WKC)           Introduction to Clinical Diagnostic Microbiology         2	
BIO MLT PHB PHB MLT MLT MLT MLT MLT	225 101 151 152 205 206 233 234 279	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I           64-68           Pathway II-511004704           (Offered at JFC, MDC, MYC, WKC)           Introduction to Clinical Diagnostic Microbiology         2           Applied Phlebotomy AND         3	
BIO MLT PHB PHB MLT MLT MLT MLT MLT MLT PHB	225 101 151 152 205 206 233 234 279	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT MLT MLT MLT PHB	225 101 151 152 205 206 233 234 279 207 170 152 208	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I           64-68           Pathway II-511004704           (Offered at JFC, MDC, MYC, WKC)           Introduction to Clinical Diagnostic Microbiology         2           Applied Phlebotomy AND         3           Phlebotomy Clinical Experience         1           Clinical Diagnostic Microbiology I AND         3	
BIO MLT PHB PHB MLT MLT MLT MLT MLT MLT PHB	225 101 151 152 205 206 233 234 279 207 170 152 208 209	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT MLT MLT MLT MLT MLT PHB PHB MLT MLT MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I           64-68           Pathway II-511004704           (Offered at JFC, MDC, MYC,WKC)           Introduction to Clinical Diagnostic Microbiology         2           Applied Phlebotomy AND         3           Phlebotomy Clinical Experience         1           Clinical Diagnostic Microbiology I AND         3           Clinical Diagnostic Microbiology II         2           Introduction to Clinical Chemistry AND         3	
BIO MLT PHB PHB MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247 248	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I         64-68           Pathway II-511004704         (Offered at JFC, MDC, MYC,WKC)           Introduction to Clinical Diagnostic Microbiology         2           Applied Phlebotomy AND         3           Phlebotomy Clinical Experience         1           Clinical Diagnostic Microbiology I AND         3           Clinical Diagnostic Microbiology II         2           Introduction to Clinical Chemistry AND         3           Advanced Clinical Chemistry         3	
BIO MLT PHB PHB MLT MLT MLT MLT MLT MLT PHB PHB MLT MLT MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247 248	Pathway I-511004703           (Offered at SMC, SEC, HEC)           Medical Microbiology         4           Introduction to the Clinical Laboratory AND         3           Phlebotomy for the Health Care Worker AND         1           Phlebotomy: Clinical Experience         1           Clinical Microbiology I AND         3           Clinical Chemistry I AND         3           Clinical Chemistry II         2           Practicum II         4           Subtotal         23           Total Credit Hours – Pathway I         64-68           Pathway II-511004704         (Offered at JFC, MDC, MYC,WKC)           Introduction to Clinical Diagnostic Microbiology         2           Applied Phlebotomy AND         3           Phlebotomy Clinical Experience         1           Clinical Diagnostic Microbiology I AND         3           Clinical Diagnostic Microbiology II         2           Introduction to Clinical Chemistry AND         3           Advanced Clinical Chemistry         3	
BIO MLT PHB PHB MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247 248	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	
BIO MLT PHB PHB MLT	225 101 151 152 205 206 233 234 279 207 170 152 208 209 247 248 279	Pathway I-511004703  (Offered at SMC, SEC, HEC)  Medical Microbiology	

<sup>\*</sup>A competency level of successful completion of MAT 065, RDG 030 and ENC 091 must be attained for any certificate.

		<i>Diploma</i>	Phlebotomy for the Health Care Worker - 5110043039 (Offered at BLC, HEC, HPC, HZC, JFC, MDC, OWC, SEC, SMC, WKC)				
	Cor	rtified Medical Laboratory Assistant 5110044020	PHB	(Offered 151	at BLC, HEC, HPC, HZC, JFC, MDC, OWC, SEC, SMC, WKC) Phlebotomy AND		
	LEI	rtified Medical Laboratory Assistant - 5110044029	РНВ	151			
		(Offered at MDC)	MLT	101	Phlebotomy: Clinical Experience AND		
Gene	ral Edu	ication Courses:	PHB	170	Applied Phlebotomy AND(3)		
Cour	se fron	n Area I:	PHB	152	Phlebotomy: Clinical Experience(1)		
ENG	101	Writing I			Total 4-5		
		n Area II:			Advanced Dhiehotemy Technician 51100/20/0		
MAT	110	Applied Mathematics OR			Advanced Phlebotomy Technician - 5110043049		
		Subtotal 6	DIID		(Offered at HZC, SEC,)		
		Subtoui	PHB	151	Phlebotomy AND 1		
Supp	ort Co	urses:	PHB PHB	152 155	Phlebotomy: Clinical Experience AND		
11		Digital Literacy 0-3	MLT	101	Phlebotomy Clinical AND		
BIO	135	Basic Anatomy & Physiology with Laboratory*4	PHB	151	Phlebotomy AND(1)		
BIO	225	Medical Microbiology OR4	PHB	153	Advanced Topics in Phlebotomy AND(4)		
MLT	119	Applied Laboratory OR(3)	PHB	155	Phlebotomy Clinical OR(3)		
MLT	207	Introduction to Clinical Diagnostic Microbiology(2)	PHB	170	Applied Phlebotomy AND(3)		
		Subtotal 6-11	PHB	152	Phlebotomy: Clinical Experience AND(1)		
*DIO:	25 0 PYC	130 1 1 m 1 16 NO 135	PHB	155	Phlebotomy Clinical(2)		
		139 may be substituted for BIO 135.			Total 6-8		
		ourses:					
MLT	101	Introduction to the Clinical Laboratory AND			Mining To almalage		
PHB	151	Phlebotomy for the Health Care Worker AND			Mining Technology		
PHB	152	Phlebotomy: Clinical Experience AND					
MLT	225	Immunohematology I OR	The M	Aining T	Technology program will focus on the knowledge needed		
PHB PHB	170 152	Applied Phlebotomy AND         (3)           Phlebotomy: Clinical Experience         (1)			the coal mining industry. Emphasis will be given to the		
MLT	112	Urinalysis			nts and safety procedures in all of the offerings including:		
MLT	115	Serology			ner device, transportation controls, communication controls,		
MLT	217	Fundamentals of Hematology OR			itions, mining methods, mining cycle, escapeways, emergen-		
MLT	215	Hematology I(4)			es, roof control, ground control, ventilation, health hazards,		
MLT	247	Introduction to Clinical Chemistry OR			rock dusting, health and safety aspects of assigned task,		
MLT	233	Clinical Chemistry I(3)			explosives, compressed cylinders, electrical hazards, first		
MLT	275	Clinical Experience					
MLT	278	Practicum I4			n of equipment, electrical knowledge and troubleshooting,		
OST	217	Medical Office Procedures OR			ctrical and fluid power equipment, maintaining the equip-		
MAI	150	Medical Assisting Administrative Procedures I(3)	ment	, rabrica	ating, supervising, and the engineering aspects of mining.		
		Subtotal 22-26			Accociate in Annlied Science		
		Total 34-43			Associate in Applied Science		
		Certificates			Mining Technology - 1509017019 (Offered at BSC, HZC, MDC)		
		Physician's Office Laboratory - 5110043029	Gene	eral Ed	ucation:		
	(O:	ffered at BLC, HEC, HZC, JFC, MDC, SEC, SMC,WKC)	ENG	101	Writing I		
PHB	151	Phlebotomy AND			Quantitative Reasoning course*		
PHB	152	Phlebotomy Clinical Experience AND			Social/Behavioral Sciences course		
MLT	101	Introduction to the Clinical Laboratory OR	GLY	101	Physical Geology AND		
PHB	170	Applied Phlebotomy AND(3)	GLY	111	Laboratory for Physical Geology OR		
PHB	152	Phlebotomy Clinical Experience(1)			Natural Sciences(4)		
MLT	111	Urinalysis			Heritage/Humanities		
MLT	115	Serology			Subtotal 16		
		Total 8-9	*Note:	MAT 150	0 is required for Engineering Operations Track and Supervisors Track.		
				nical C			
		Phlebotomist - 5110043019	reen		Digital Literacy		
		(Offered at BLC, HZC, JFC, MYC)	MNG	160	Elements of Underground Mining		
PHB	100	Phlebotomy	MNG		Elements of Underground Mining Lab 1-3		
PHB	155	Phlebotomy Clinical	MNG		Elements of Surface Mining		
		Total 8-9	MNG	171	Elements of Surface Mining Lab		
			MNG	150	Mining Laws		
			BAS	160	Introduction to Business		
			EFM	100	Personal Financial Management OR		
			BAS	120	Personal Financial Management OR		
				120 274	Personal Financial Management OR		

MNG 180

Subtotal

25-29

		Operators Track – 150901702			Diploma				
IMT					Underground Mining Repair Technology -1509014019				
IMT	151	Maintaining Industrial Equipment I Lab	Cono		ucation:				
		Technical Electives*	Area 1		Written Communication, Oral Communications, or Heritage/Humanities				
		Total Credits 60-66	Area 2	=	Social/Behavioral Sciences, Natural Sciences, or Quantitative Reasoning				
		Electricians Track - 150901703			Subtotal 6				
		(Offered at BSC, HZC, MDC)	Tech	nical C	ourses:				
MNG	123	Mining Electricity I AND			Blueprint Reading Course				
MNG	125	Mining Electricity I Lab OR			Digital Literacy course or demonstrated competency 0-3				
IMT	110	Industrial Maintenance Electrical Principles AND(3)	EFM	100	Personal Financial Management OR				
IMT	111	Industrial Maintenance Electrical Principles Lab(2)	BAS	120 100	Personal Finance (3)				
ELT	244	Electrical Machinery and Controls OR 4 Equivalent course	IMT IMT	101	Welding for Maintenance				
IMT	150	Maintaining Industrial Equipment I	ELT	250	Programmable Logic Controllers4				
IMT	151	Maintaining Industrial Equipment I Lab	ELT	265	Applied Fluid Power OR				
ELT	250	Programmable Logic Controllers	FPX	100	Fluid Power AND(3)				
		Technical Electives*	FPX	101	Fluid Power Lab(2)				
		Subtotal 20	IMT	150	Maintaining Industrial Equipment I				
		Total Credits 61-65	IMT MNG	151 123	Maintaining Industrial Equipment I Lab				
			MNG	125	Mining Electricity AND 4 Mining Electricity I Lab OR				
		Supervisors Track - 150901704	IMT	110	Industrial Maintenance Electrical Principles AND(3)				
		•	IMT	111	Industrial Maintenance Electrical Principles Lab(2)				
ACT	101	(Offered at BSC, MDC)  Fundamentals of Associating I	MNG	190	Mine Emergency Technician OR				
MNG	286	Fundamentals of Accounting I	KHP	190	First Aid & Emergency Care(2)				
BAS	283	Principles of Management	MNG	185	Permissibility				
BAS	288	Personal and Organizational Leadership	MNG	274	Mine Safety				
		Technical Electives* 8 Subtotal 20			Subtotal 44-54				
					Total Credits 50-60				
		Total Credits 61-65							
			*Tacl	micall	Flactives				
		Marka da Tariba 150001705			Electives:				
		Mechanics Track - 150901705	Any A	IT, EET	E, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG				
		(Offered at BSC, HZC, MDC)	Any A	IT, EET					
EIT	265	(Offered at BSC, HZC, MDC) Blueprint Reading course	Any A	IT, EET	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.				
ELT FPX	265 100	(Offered at BSC, HZC, MDC) Blueprint Reading course	Any A	IT, EET	E, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG				
ELT FPX FPX	265 100 101	(Offered at BSC, HZC, MDC) Blueprint Reading course	Any A	IT, EET	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates				
FPX	100	(Offered at BSC, HZC, MDC) Blueprint Reading course	Any A	IT, EET	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129				
FPX FPX	100 101	(Offered at BSC, HZC, MDC)Blueprint Reading course2-3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Mechanical Power Transmission Systems3Welding for Maintenance3	Any A or any	IT, EET	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)				
FPX FPX ELT IMT IMT	100 101 122 100 101	(Offered at BSC, HZC, MDC)Blueprint Reading course2-3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Mechanical Power Transmission Systems3Welding for Maintenance3Welding for Maintenance Lab2	Any A or any MNG	IT, EET other o	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3	Any A or any MNG MNG	160 161	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT	100 101 122 100 101	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2	Any A or any MNG	IT, EET other o	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2	Any A or any MNG MNG EFM	160 161 100	C, ELT, IMT, CIT, ISM, ENV, SMT, CAD, ICT, MNG, MFG course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23	Any A or any MNG MNG EFM BAS	160 161 100 120	Course as approved by the program coordinator.  Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2	Any A or any MNG MNG EFM BAS	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23         Total Credits       61-68	Any A or any MNG MNG EFM BAS	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150	COffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150 151	(Offered at BSC, HZC, MDC)   Blueprint Reading course	Any A or any MNG MNG EFM BAS	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23         Total Credits       61-68         Engineering Operations Track - 150901701       (Offered at BSC, MDC)         Trigonometry OR       2	Any A or any MNG MNG EFM BAS WPP	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT	100 101 122 100 101 150 151	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23         Total Credits       61-68         Engineering Operations Track - 150901701       (Offered at BSC, MDC)         Trigonometry OR       2         Trigonometry       (3)	Any A or any MNG MNG EFM BAS	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23         Total Credits       61-68         Engineering Operations Track - 150901701       (Offered at BSC, MDC)         Trigonometry OR       2	Any A or any MNG MNG EFM BAS WPP	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	COffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS WPP	160 161 100 120 200	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	(Offered at BSC, HZC, MDC)         Blueprint Reading course       2-3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Mechanical Power Transmission Systems       3         Welding for Maintenance       3         Welding for Maintenance Lab       2         Maintaining Industrial Equipment I       3         Maintaining Industrial Equipment I Lab       2         Technical Electives*       2         Subtotal       20-23         Total Credits       61-68         Engineering Operations Track - 150901701       (Offered at BSC, MDC)         Trigonometry OR       2         Trigonometry OR       2         Trigonometry       (3)         Blueprint Reading course       2-3         Mechanical Design OR equivalent course       4	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT	160 161 100 120 200 <b>U</b>	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	COffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT	160 161 100 120 200 <b>U</b>	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT	100 101 122 100 101 150 151	Coffered at BSC, HZC, MDC	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT IMT	160 161 100 120 200 <b>U</b>	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT IMT	100 101 122 100 101 150 151	Coffered at BSC, HZC, MDC	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT	160 161 100 120 200 <b>U</b>	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT IMT  TELT  *Tech	100 101 122 100 101 150 151 112 155 264	Coffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT ELT	160 161 100 120 200 <b>U</b> 123 125 100 101 244 110 111 250	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT IMT  *Tech Any Al	100 101 122 100 101 150 151 112 155 264	(Offered at BSC, HZC, MDC)	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT ELT ELT	160 161 100 120 200 <b>U</b> 123 125 100 101 244 110 111 250 265	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT IMT  *Tech Any Al	100 101 122 100 101 150 151 112 155 264	COffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT ELT FPX FPX IMT	160 161 100 120 200 123 125 100 101 244 110 111 250 265 100 101 150	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				
FPX FPX ELT IMT IMT IMT IMT IMT  *Tech Any Al	100 101 122 100 101 150 151 112 155 264	COffered at BSC, HZC, MDC    Blueprint Reading course	Any A or any MNG MNG EFM BAS WPP MNG IMT IMT ELT IMT ELT FPX FPX	160 161 100 120 200 123 125 100 101 244 110 111 250 265 100 101	Certificates  Underground Operator 1509013129  (Offered at BSC, MDC, SEC)  Elements of Underground Mining				

		Underground Supervisor - 1509013079	FPX	100	Fluid Power AND	(3)
		(Offered at BSC, HZC, MDC, SEC)	FPX	101	Fluid Power Lab	(2)
MNG	150	Mining Laws			Total Credits	8-10
MNG	274	Mine Safety 3				
MNG	190	Mine Emergency Technician OR			Mining Technician I - 1509013039	
KHP	190	First Aid & Emergency Care(2)				
BAS	160	Introduction to Business			(Offered at BSC, SEC)	0.2
MNG	286	Roof Control and Ventilation	MNIC	1.60	Computer/Digital Literacy	
		Computer/Digital Literacy0-3	MNG		Elements of Underground Mining	
		Blueprint Reading course	MNG MNG	161	Elements of Underground Mining Lab	
		Total Credits 16-21	MNG	150 286	Mining Laws	
			MING	200	Roof Control and Ventilation	3 10-15
		Surface Operator - 1509013139			Total Credits	10 13
		•			Mining Tooksision II 1500012040	
MNIC	170	(Offered at BSC, MDC, SEC)  Elements of Symbols Mixing			Mining Technician II - 1509013049	
MNG MNG	170	Elements of Surface Mining			(Offered at BSC, SEC)	
EFM	100	Personal Financial Management OR			Computer/Digital Literacy	
BAS	120	Personal Finance OR(3)	MNG		Mining Electricity I	
WPP	200	Workplace Principles(3)	MNG	125	Mining Electricity Lab	
HEO	125	Special Problems I OR	MNG	150	Mining Laws	
1120	123	Technical Elective(3)	MNG	286	Roof Control and Ventilation	
		Total Credits 9-11	MNG	190	Mine Emergency Technician OR	
		,	KHP	190	First Aid & Emergency Care	(2)
		0 ( 0 : 1500010000	IMT	100	Welding for Maintenance	3
		Surface Supervisor - 1509013099	IMT	101	Welding for Maintenance Lab	
		(Offered at BSC, MDC, SEC)			Total Credits	18-22
		Computer/Digital Literacy0-3				
		Blueprint Reading Course			Motorovolo Toohnology	
MNG	150	Mining Laws			Motorcycle Technology	
MNG	190	Mine Emergency Technician OR			, ,,	
KHP	190	First Aid & Emergency Care(2)	The N	lotorcy	cle Technology Program prepares students for careers	in a
MNG	274	Mine Safety			ealership or private business. A core curriculum prov	
BAS	160	Introduction to Business			a foundation of knowledge applicable to the motorcyc	
		Total Credits 13-18	indust		,	
				,		
		Cinford Field Machania 1500010100		,	Associate in Applied Colones	
		Surface Field Mechanic - 1509013109		,	Associate in Applied Science	
FLT	122	(Offered at BSC, SEC)		,		
ELT	122	(Offered at BSC, SEC) Mechanical Power Transmission Systems			Motorcycle Technology - 4706117019	
ELT	265	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3		,		
ELT FPX	265 100	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)		,	Motorcycle Technology - 4706117019 (Offered at BSC)	
ELT FPX FPX	265 100 101	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)	Gene	ral Edu	Motorcycle Technology - 4706117019 (Offered at BSC)	3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)Mechanical Power Transmission Systems3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Welding for Maintenance3	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	
ELT FPX FPX	265 100 101	(Offered at BSC, SEC)Mechanical Power Transmission Systems3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Welding for Maintenance3Welding for Maintenance Lab2	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)Mechanical Power Transmission Systems3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Welding for Maintenance3	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3 3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)Mechanical Power Transmission Systems3Applied Fluid Power OR3Fluid Power AND(3)Fluid Power Lab(2)Welding for Maintenance3Welding for Maintenance Lab2	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3 3 3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13	<b>Gene</b> ENG	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences	3 3 3
ELT FPX FPX IMT	265 100 101 100	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3	<b>Gene</b> ENG MAT	ral Edu 101 110	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3 3 3 3
ELT FPX FPX IMT IMT	265 100 101 100 101	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2	<b>Gene</b> ENG MAT	ral Edu 101	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I	3 3 3 3
ELT FPX FPX IMT IMT	265 100 101 100 101	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3	<b>Gene</b> ENG MAT	ral Edu 101 110	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy	3 3 3 3 3 3
ELT FPX FPX IMT IMT	265 100 101 100 101 100 103	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2	<b>Gene</b> ENG MAT	ral Edu 101 110	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy  Introduction to Motorcycles	3 3 3 3 3 3
ELT FPX FPX IMT IMT	265 100 101 100 101 100 103	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3	Gene ENG MAT Techn MOT OST	101 110 110 nical C	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy  Introduction to Motorcycles  Introduction to Information Systems	3333333333333
ELT FPX FPX IMT IMT	265 100 101 100 101 100 103	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8	Gene ENG MAT Techn MOT OST MOT	101 110 110 nical C	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing	3333333333333333
ELT FPX FPX IMT IMT	265 100 101 100 101 100 103	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Minning Technician Assistant I - 1509013019	Gene ENG MAT Techn MOT OST MOT MOT	101 110 110 nical C	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management	3333333333333333333333
ELT FPX FPX IMT IMT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)	Gene ENG MAT  Techn  MOT OST MOT MOT MOT	101 110 110 110 110 100 105 120 130 134	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements.	333333333333333333333333
ELT FPX FPX IMT IMT PMX DIT ELT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3	Gene ENG MAT  Techn  MOT OST MOT MOT MOT MOT	101 110 110 110 100 105 120 130 134 244	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management  Service Requirements  Parts Management	333333333333333333333
ELT FPX FPX IMT IMT  PMX DIT ELT  PMX DIT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2	Gene ENG MAT  Techn  MOT OST MOT MOT MOT MOT MOT	101 110 110 110 100 105 120 130 134 244 260	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements  Parts Management Capstone	333333333333333333333333
PMX DIT ELT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance       3	Gene ENG MAT  Techi MOT OST MOT MOT MOT MOT COE	101 110 110 110 100 105 120 130 134 244 260 199	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements  Parts Management  Capstone  Cooperative Education or	3333333333333333333333333
ELT FPX FPX IMT IMT  PMX DIT ELT  PMX DIT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance       3         Welding for Maintenance Lab       2         Welding for Maintenance Lab       2          Welding for Maintenance Lab       2	Gene ENG MAT  Techn  MOT OST MOT MOT MOT MOT MOT	101 110 110 110 100 105 120 130 134 244 260 199	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements  Parts Management  Capstone  Cooperative Education or  Practicum	333
PMX DIT ELT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance       3	Gene ENG MAT  Techi MOT OST MOT MOT MOT MOT COE	101 110 110 110 100 105 120 130 134 244 260 199	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements  Parts Management  Capstone  Cooperative Education or  Practicum	3333333333333333333333333
PMX DIT ELT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance       3         Welding for Maintenance Lab       2         Welding for Maintenance Lab       2          Welding for Maintenance Lab       2	Gene ENG MAT  Techi MOT OST MOT MOT MOT MOT COE	101 110 110 110 100 105 120 130 134 244 260 199	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy Introduction to Motorcycles Introduction to Information Systems  Motorcycle Sales and Marketing Shop Management Service Requirements  Parts Management  Capstone  Cooperative Education or  Practicum	333
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PMX DIT ELT	265 100 101 100 101 100 103 122	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance Lab       2         Welding for Maintenance Lab       2         Total Credits       10	Gene ENG MAT  Techi MOT OST MOT MOT MOT MOT COE	101 110 110 110 100 105 120 130 134 244 260 199	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy  Introduction to Motorcycles  Introduction to Information Systems  Motorcycle Sales and Marketing  Shop Management  Service Requirements.  Parts Management  Capstone  Cooperative Education or  Practicum  Subtotal  Repair Track - 470611701  (Offered at BSC)	3333333333333333333333333
PMX DIT ELT  PMX DIT IMT	265 100 101 100 101 100 103 122 100 103 100 101	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance Lab       2         Welding for Maintenance Lab       2         Total Credits       10         Mining Technician Assistant II - 1509013029         (Offered at BSC, HZC, SEC)         Mining Electricity I       4         Mining Electricity Lab       1	Gene ENG MAT  Techi  MOT OST MOT MOT MOT MOT COE COED	101 110 110 110 100 105 120 130 134 244 260 199 198	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy  Introduction to Motorcycles  Introduction to Information Systems  Motorcycle Sales and Marketing  Shop Management  Service Requirements  Parts Management  Capstone  Cooperative Education or  Practicum  Subtotal  Repair Track - 470611701	3333333333333322222223
PMX DIT ELT  PMX DIT IMT  MNG	265 100 101 100 101 100 103 122 100 103 100 101	(Offered at BSC, SEC)  Mechanical Power Transmission Systems 3  Applied Fluid Power OR 3  Fluid Power AND (3)  Fluid Power Lab (2)  Welding for Maintenance 3  Welding for Maintenance Lab 2  Total Credits 11-13  Surface Technician/Greaser - 1509013119  (Offered at BSC, SEC)  Precision Measurement 3  Preventive Maintenance Lab 2  Mechanical Power Transmission Systems 3  Total Credits 8  Mining Technician Assistant I - 1509013019  (Offered at BSC, SEC)  Precision Measurement 3  Preventive Maintenance Lab 2  Mechanical Power Transmission Systems 3  Total Credits 8  Mining Technician Assistant I - 1509013019  (Offered at BSC, SEC)  Precision Measurement 3  Preventive Maintenance Lab 2  Welding for Maintenance Lab 2  Total Credits 10  Mining Technician Assistant II - 1509013029  (Offered at BSC, HZC, SEC)  Mining Electricity I 4	Gene ENG MAT  Techi MOT OST MOT MOT MOT COE COED	100 100 100 100 100 100 100 100 100 100	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy  Introduction to Motorcycles  Introduction to Information Systems  Motorcycle Sales and Marketing  Shop Management  Service Requirements.  Parts Management  Capstone  Cooperative Education or  Practicum  Subtotal  Repair Track - 470611701  (Offered at BSC)  Fundamentals of Electricity	33333333333332222222333
PMX DIT ELT  PMX DIT IMT  MNG MNG	100 101 100 101 100 103 122 100 103 100 101	(Offered at BSC, SEC)         Mechanical Power Transmission Systems       3         Applied Fluid Power OR       3         Fluid Power AND       (3)         Fluid Power Lab       (2)         Welding for Maintenance       3         Welding for Maintenance Lab       2         Total Credits       11-13         Surface Technician/Greaser - 1509013119         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Mechanical Power Transmission Systems       3         Total Credits       8         Mining Technician Assistant I - 1509013019         (Offered at BSC, SEC)         Precision Measurement       3         Preventive Maintenance Lab       2         Welding for Maintenance Lab       2         Welding for Maintenance Lab       2         Total Credits       10         Mining Technician Assistant II - 1509013029         (Offered at BSC, HZC, SEC)         Mining Electricity I       4         Mining Electricity Lab       1	Gene ENG MAT  Techi MOT OST MOT MOT MOT COE COED	100 100 134 244 260 199 198	Motorcycle Technology - 4706117019  (Offered at BSC)  Ication  Writing I  Applied Math  Heritage/Humanities  Social/Behavioral Sciences  Natural Sciences  Oral Communications  Subtotal  Ore  Computer/Digital Literacy  Introduction to Motorcycles  Introduction to Information Systems  Motorcycle Sales and Marketing  Shop Management  Service Requirements.  Parts Management  Capstone  Cooperative Education or  Practicum  Subtotal  Repair Track - 470611701  (Offered at BSC)  Fundamentals of Electricity  Basic Engines and Drive Systems.	33333333333332222222

MOT	220	Diagnostics and Troubleshooting	Appr	oved T	echnical Electives Repair Track:
MOT	234	Performance Machine and Welding	CIS	130	Microcomputer Application
		Approved Technical Electives	CRT	100	Introduction to Collision Repair
		Subtotal 22	CMM	110	Fundamentals of Machine Tools A
		Total Credits (Repair Track) 62-65	Note: 0	Other Elec	ctives may be approved by the Program Coordinator
		oz os	Appr	oved T	echnical Electives Retail Track:
		Datail Trook 470011700	CIS	130	Microcomputer Application
		Retail Track - 470611702	IT	132	Web Page Development
		(Offered at BSC)	ACC	202	Managerial Accounting
BAS	200	Small Business Management	BAS	267	Introduction to Business Law
ACC	201	Financial Accounting	BAS	274	Human Resource Management
		Approved Technical Electives	BAS	283	Principles of Management
		Subtotal 21	BAS	291	Retail Management
		Total Credits (Retail Track) 61-64		М	It' Chillad Cooksons Taskuisian
		0-4:0-4-		Mu	lti-Skilled Systems Technician
		Certificates			-
		Danair Taglariaina II 4700110000			e systems approach to the operation of electrical compo-
		Repair Technician II - 4706113029			relationship of voltage, current, resistance, and power in
		(Offered at BSC)			tems. Provides an overview of alternating and direct cur-
Techi	nical Co	ourses			ntals. Introduces the systems approach to the operation of
MOT	100	Introduction to Motorcycles			omponents and the relationship of their application in indus-
OST	105	Introduction to Information Systems			Provides an overview of rotating machinery fundamentals.
MOT	120	Motorcycle Sales and Marketing			e systems approach to the operation of hydraulic/pneu-
MOT	130	Shop Management			nents and the relationship of their application in industrial
MOT	134	Service Requirements	systen	ns. Pro	vides an overview of digital fundamentals.
MOT MOT	142 156	Basic Engines and Drive Systems. 2			A .141 .
MOT	200	Frames and Suspensions			Certificate
MOT	220	Diagnostics and Troubleshooting			
MOT	234	Performance Machining and Welding			Multi-Skilled Technician - 4703033229
MOT	244	Parts and Management			(Offered at JFC)
		Total 25	MST	150	Multi-Skilled Systems Technician9
					Total Credits 9
		Repair Technician I - 4706113019			
		Repair Technician I - 4706113019 (Offered at BSC)			Natural Cae Tochnology
Techi	nical Co	(Offered at BSC)			Natural Gas Technology
	nical Co	(Offered at BSC)			Natural Gas Technology
Techi MOT OST	nical Co 100 105	(Offered at BSC)  Durses Introduction to Motorcycles	Cons	tructio	
MOT	100	(Offered at BSC)			on and Maintenance Technician
MOT OST	100 105	(Offered at BSC)  Durses Introduction to Motorcycles	This p	rogram	on and Maintenance Technician prepares students for performing job tasks in five func-
MOT OST MOT	100 105 120 130	(Offered at BSC)  DURSES Introduction to Motorcycles	This p	rogram areas of	on and Maintenance Technician prepares students for performing job tasks in five func- pipeline construction and maintenance; work related
MOT OST MOT MOT MOT	100 105 120 130	(Offered at BSC)  Durses Introduction to Motorcycles	This p tional safety,	rogram areas of installi	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ng and inspecting gas distribution piping, maintenance on
MOT OST MOT MOT MOT	100 105 120 130 134	(Offered at BSC)  DURSES Introduction to Motorcycles	This p tional safety, gas pi	rogram areas of installi pelines,	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring
MOT OST MOT MOT MOT	100 105 120 130 134	(Offered at BSC)  Durses Introduction to Motorcycles	This p tional safety, gas pi cathoo	rogram areas of installi pelines, lic prot	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented
MOT OST MOT MOT MOT	100 105 120 130 134	(Offered at BSC)  Durses Introduction to Motorcycles	This p tional safety, gas pi cathoo relate	rogram areas of installi pelines, lic prot d skill p	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ng and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks
MOT OST MOT MOT MOT	100 105 120 130 134	(Offered at BSC)  Durses Introduction to Motorcycles	This printed tional safety, gas pip cathod related at the	rogram areas of installi pelines, lic prot d skill p technic	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator
MOT OST MOT MOT MOT MOT	100 105 120 130 134 142	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)	This partitional safety, gas pill cathod related at the qualification.	rogram areas of installi pelines, dic prot d skill p technic ed" on a	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ng and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks
MOT OST MOT MOT MOT MOT	100 105 120 130 134 142	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)	This printed tional safety, gas pip cathod related at the	rogram areas of installi pelines, dic prot d skill p technic ed" on a	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator
MOT OST MOT MOT MOT MOT	100 105 120 130 134 142	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)         Durses         Introduction to Motorcycles       3	This p tional safety, gas pij cathod relate at the qualifi	areas of installi pelines, lic proted d skill p techniced" on the	prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-
MOT OST MOT MOT MOT MOT	100 105 120 130 134 142	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3	This p tional safety, gas pij cathod relate at the qualifi	areas of installi pelines, lic proted d skill p techniced" on the	on and Maintenance Technician  prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator
MOT OST MOT MOT MOT MOT Techi MOT OST	100 105 120 130 134 142	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)         Durses       Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Small Business Management       3	This ptional safety, gas pip cathod relate at the qualifipart N	areas of installi pelines, lic prot d skill p technic ed" on t	prepares students for performing job tasks in five func- f pipeline construction and maintenance; work related ing and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-
MOT OST MOT MOT MOT MOT MOT  Techi MOT OST MOT BAS MOT	100 105 120 130 134 142 <b>nical Co</b> 100 105 120 200 130	(Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Shop Management       2         Service Requirements       2         Basic Engines and Drive Systems       2         Total       15         Retail Technician II - 4706113049         (Offered at BSC)         Durses         Introduction to Motorcycles       3         Introduction to Information Systems       3         Motorcycle Sales and Marketing       3         Small Business Management       3         Shop Management       2	This ptional safety, gas pip cathod related at the qualific part N	areas of installicelines, dic protection in technice ed" on in the control of the	prepares students for performing job tasks in five functipipeline construction and maintenance; work relateding and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-
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MOT OST MOT MOT MOT MOT MOT  Techi MOT OST MOT BAS MOT	100 105 120 130 134 142 <b>nical Co</b> 100 105 120 200 130	(Offered at BSC)         Durses         Introduction to Motorcycles	This p tional safety, gas pij cathod relate at the qualifi part N  Leak This p areas on general control of the part of the par	rogram areas of installi pelines, dic proted skill p technic ed" on a l.	prepares students for performing job tasks in five functipipeline construction and maintenance; work relateding and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-
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MOT OST MOT MOT MOT MOT MOT  Techi MOT OST MOT BAS MOT	100 105 120 130 134 142 <b>nical Co</b> 100 105 120 200 130	(Offered at BSC)         Durses         Introduction to Motorcycles	This p tional safety, gas pip cathod related at the qualific part N  Leak  This p areas of ing cu opera and m documents.	areas of installice pelines, lic protest declines and skill petechnice ed" on the still petechnice ed" on the still petechnice ed equiposition on the still petechnical ed equiposition ented in the still petechnical ed equiposition ented ed e	prepares students for performing job tasks in five functional pipeline construction and maintenance; work relateding and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-  and Corrosion Control Technician  prepares students for job related tasks in six functional al gas service; work related safety, installing and maintain-services lines and meter and regulator sets, installing gas pment, installing and inspecting gas distribution piping and cathodic protection systems. Classroom instruction and related skill performance prepares students to perform job
MOT OST MOT MOT MOT MOT MOT  Techi MOT OST MOT BAS MOT	100 105 120 130 134 142 <b>nical Co</b> 100 105 120 200 130	(Offered at BSC)         Durses         Introduction to Motorcycles	This part of tional safety, gas pip cathod related at the qualift part N  Leak  This pareas of ing curopera and modocum related the part of the part o	areas of installice pelines, lic protest declines ed" on a stallice protest declines ed" on a stallice	prepares students for performing job tasks in five functional pipeline construction and maintenance; work relateding and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Sub-  and Corrosion Control Technician  prepares students for job related tasks in six functional al gas service; work related safety, installing and maintain-services lines and meter and regulator sets, installing gas pment, installing and inspecting gas distribution piping and cathodic protection systems. Classroom instruction and related skill performance prepares students to perform job at the technician level. Persons completing the program are
MOT OST MOT MOT MOT MOT MOT  Techi MOT OST MOT BAS MOT	100 105 120 130 134 142 <b>nical Co</b> 100 105 120 200 130	(Offered at BSC)         Durses         Introduction to Motorcycles	This period to the part N Leak This pare as a ling out operar and m docum relate "opera"	areas of installice protections, disciplines, disciplines	prepares students for performing job tasks in five functional pipeline construction and maintenance; work relateding and inspecting gas distribution piping, maintenance on placing pipelines into service and installing and monitoring ection systems. Classroom instruction and documented erformance prepares students to perform job related tasks ian level. Persons completing the program are "operator related covered tasks according to 49CFR, Part 192, Substitution Control Technician  prepares students for job related tasks in six functional all gas service; work related safety, installing and maintainservices lines and meter and regulator sets, installing gas pment, installing and inspecting gas distribution piping and cathodic protection systems. Classroom instruction and related skill performance prepares students to perform job at the technician level. Persons completing the program are lified" on related covered tasks according to 49CFR, Part
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tion systems, and monitoring cathodic protection systems. Classroom instruction and documented related skill performance prepares students to perform job related tasks at the technician level. Persons completing the program are "operator qualified" on related covered tasks according to 49CFR, Part 192, Subpart N.

#### **Measurement and Regulation Technician**

This program prepares students for performing job tasks in five functional areas of natural gas measurement and regulation; work related safety, basic gas laws, maintaining gas metering systems, maintaining gas regulation systems, and maintaining recording instruments. Classroom instruction and documented related skill performance prepares students to perform job related tasks at the technician level.

### **Certificates**

#### Leakage and Corrosion Control Technician - 1509033020

(Offered at WKC) NGT 100 Technologies Basic to the Delivery of Natural Fuel Gases ..... 3 NGT 110 Maintaining Compliance with 49 Code NGT 130 NGT 140 NGT Performing Patrol & Leakage Surveys NGT 205 Identifying Practices & Procedures Used to Control and 210 NGT **Total Credits** 

#### Gas Service Technician - 1509033040

		002 201 AICE 1001111101911 - 1202022040
		(Offered at WKC)
NGT	100	Technologies Basic to the Delivery of Natural Fuel Gases 3
NGT	110	Preventing/Controlling Worksite Incidents
NGT	125	Maintaining Compliance with the National Fuel Gas
		Code NFPA 54 and ANSI Z223.1
NGT	160	Installing & Maintaining Customer Service Lines and
		Meter and Regulator Sets
NGT	170	Installing Gas Operated Equipment
NGT	180	Installing and Inspecting Gas Distribution Piping
NGT	200	Placing Gas Pipelines into Service
NGT	205	Identifying Practices & Procedures Used to Control

#### Measurement and Regulation Technician - 1509033030

**Total Credits** 

**Total Credits** 

NGT

NGT

NGT

220

230

Operating & Maintaining Gas Pressure Regulating Systems... 3

Identifying Principles & Performing Operations Basic

		(Offered at WKC)
NGT	100	Technologies Basic to the Delivery of Natural Fuel Gases 3
NGT	110	Preventing/Controlling Worksite Incidents
NGT	130	Maintaining Compliance with 49 Code
		of Federal Regulations (CFR), Part 192
NGT	140	Pipeline Construction Safety
NGT	150	Performing Patrol & Leakage Surveys
		on Natural Gas Pipeline Facilities
NGT	205	Identifying Practices & Procedures Used to Control

#### Construction and Maintenance Technician - 1509033010

NGT

NGT

NGT

100

110

130

(Offered at WKC)
Technologies Basic to the Delivery of Natural Fuel Gases ... 3
Preventing/Controlling Worksite Incidents ... 3
Maintaining Compliance with 49 Code
of Federal Regulations (CFR), Part 192 ... 1
Pipeline Construction Gasty ... 3

140 NGT NGT 180 NGT 190 NGT 200 NGT 205 Identifying Practices & Procedures Used to Control **Total Credits** 

# Nuclear Medicine and Molecular Imaging Technology

The Nuclear Medicine and Molecular Imaging Technology (NMMIT) program prepares the individual to work in the field of Nuclear Medicine and Molecular Imaging. Nuclear Medicine and Molecular Imaging is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluation of the anatomic or physiologic conditions of the body and to provide therapy with unsealed radioactive materials. The skills of the nuclear medicine technologist complement those of the nuclear medicine physician and other professionals in the field. Nuclear medicine technologists have responsibilities in the following areas: (a) patient care and monitoring, (b) technical skills related to radiation safety, radiopharmacy, clinical instrumentation, diagnostic and therapeutic procedures (including hybrid imaging and emerging technologies), quality control, and computers, and (c) administrative functions related to supplies and equipment, documentation of operations related to disposition of radioactive materials, quality control data, and patient records.

The NMMIT program is a selective admission program. A student must earn a grade of C or better in the prerequisite and concurrent mathematics and science courses to be admitted to and to remain enrolled in the program. Also, a student must earn a grade of C or better in each of the NMMIT courses to be retained in the program. After graduation from the program, the individual is eligible to write either the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiologic Technologists (ARRT) nuclear medicine technology examination to earn credentials. Please see the guidelines for the selective admission requirements to the Nuclear Medicine and Molecular Imaging Technology program.

Documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first NMI course.

Note: Hours Exception (71-73 for the A.A.S.) approved by the KCTCS Board of Regents in December  $2010\,$ 

# Associate in Applied Science

#### Nuclear Medicine and Molecular Imaging Technology - 5109057039

 $(Offered\ at\ BLC, JFC)$ 

#### General Education:

ENG	101	Writing I	3
ENG	102	Writing II	
MAT	150	College Algebra OR	
MA	109	College Algebra	
CHE	140	Introductory General Chemistry	
CHE	150	Introduction to Organic and Biological Chemistry	

		Subtotal	35-37
		Oral Communications Course	3
		Heritage/Humanities	3
		Social/Behavioral Sciences	3
PHY	172	Physics for Health Sciences	(2)
PHY	171	Applied Physics OR	4
BIO	139	Human Anatomy & Physiology II	4
BIO	137	Human Anatomy & Physiology I	4
		Chemistry Lab	
CHE	155	Introduction to Organic and Biological	

#### **Technical Courses:**

		Total Credits	71-73
		Subtotal	36
IMG	230	Sectional Anatomy for Advanced Imaging	3
NMI	270	Clinic V	4
NMI	250	Clinical Procedures IV	4
NMI	260	Clinic IV	4
NMI	240	Clinical Procedures III	4
NMI	220	Clinic III	
NMI	230	Radiopharmacy	2
NMI	170	Clinic II	
NMI	161	Physics and Instrumentation II	2
NMI	160	Clinical Procedures II	2
NMI	150	Clinic I	2
NMI	142	Radiation Biology/Protection	1
NMI	141	Physics and Instrumentation I	2
NMI	140	Clinical Procedures I	2

# Nursing

The Associate Degree Nursing program prepares graduates to use their skill and knowledge to fulfill the role of the nurse: enhance human flourishing, demonstrate sound nursing judgment, continually develop professional identity, and possess a spirit of inquiry to improve the quality of patient care. Encompassed within these roles are the core components of context and environment, knowledge and science, personal/professional development, quality and safety, relationship-centered care, and teamwork. These core components are introduced, developed and built upon through the curriculum. Graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Associate Degree Nursing curriculum is organized around a clearly defined conceptual framework and combines general education and nursing courses. The nursing courses correlate classroom and clinical instruction in a variety of community agencies. \*

Acceptance into the Associate Degree Nursing program is based on a selective admissions process. In order to be considered for admission, applicants must comply with college and program admission requirements prior to March 1 for admission to a fall NSG 101 course (July 1 for admission to a spring NSG 101 course).

Progression in the Associate Degree Nursing program is contingent upon achievement of a grade of "C" or better in each biological science, nursing and mathematics course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

CPR requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout the program. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, and documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first nursing course.

\*Transportation to the community agencies is the responsibility of each student.

Note: The Kentucky Board of Nursing may deny a nursing graduate admission to the NCLEX-RN Exam if an individual has been convicted of a misdemeanor or felony which involves acts that bear directly on the qualifications of the graduate to practice nursing.

The following Associate Degree Nursing programs are accredited by the Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Rd. NE, Suite 850, Atlanta, GA 30326, <a href="www.nlnac.org">www.nlnac.org</a>, telephone: (404) 975-5000:

Ashland Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Henderson Community College, Hopkinsville Community College, Jefferson Community and Technical College, Somerset Community College, West Kentucky Community and Technical College. Note: Hours exemption (69-72 for the AAS) approved by the KCTCS Board of Regents in June 2010.

# Associate in Applied Science

#### Nursing - 5138017009

(Offered at ASC, BLC, BSC, ELC, GTW, HEC, HPC, JFC, MYC, OWC, SMC, WKC)

#### **General Education:**

BIO	137	Human Anatomy & Physiology I	4
BIO	139	Human Anatomy & Physiology II	4
BIO	225	Medical Microbiology	4
PSY	110	General Psychology	3
PSY	223	Developmental Psychology	3
		Written Communication Courses	
		Oral Communications Course	3
MAT	110	Applied Mathematics OR	3
MAT	150	College Algebra	(3)
		Heritage/ Humanities Course	3
		Subtotal	33

#### Nursing Modular Pathway- 513801704

(Offered at ASC, BLC, BSC, ELC, GTW, HEC, HPC, MYC, OWC, SMC, WKC)

#### **Technical Courses:**

		Total Credits	71
		Subtotal	38
NSG	230	Medical/Surgical Nursing III	6
NSG	225	Pharmacology II	
NSG	220	Medical/Surgical Nursing II	
NSG	215	Pharmacology I	1
NSG	213	Pediatric Nursing	3
NSG	212	Behavioral Health Nursing	3
NSG	211	Maternal Newborn Nursing	
NSG	199	** Accelerated LPN –ADN Bridge Course	
NSG	197	** LPN – ADN Bridge OR	
NSG	210	***Medical/Surgical Nursing I OR	
NSG	101	***Nursing Practice I	9

<sup>\*\*</sup>Taken by Licensed Practical Nurses who meet specific program requirements

NOTE: CPR requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout the program. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, and documentation of computer/digital literacy as defined by KCTCS is required prior to enrolling in the first nursing course.

<sup>\*\*\*</sup>Credit may be awarded to Licensed Practical Nurses who meet specific program requirements.

#### Nursing Standard Pathway - 513801705

(Offered at JFC)

#### **Technical Courses:**

		Total CREDITS	71
		Subtotal	38
NSG	226	Nursing Pharmacology II	1
NSG	216	Nursing Pharmacology I	1
NSG	246	Nursing Four	9
NSG	236	(Family Nursing) Nursing Three	9
NSG	196	**Nursing LPN Bridge	(5)
NSG	206	***Nursing Two OR	9
NSG	106	***Nursing One	9

\*\*Taken by Licensed Practical Nurses who meet specific program requirements

NOTE: CPR (BLS for Healthcare Providers) requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout the program. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, a letter of good standing status from the Kentucky Nurse Aide Registry, criminal background checks and documentation of computer/digital literacy as defined by KCTCS are required prior to enrolling in the first nursing course.

# Nursing Assistant – Advanced

Provides knowledge and skills for nurse aides to assume the role and responsibility required in a variety of health care settings.

#### Certificate

#### Advanced Nursing Assistant - 5139023019

(Offered at ELC, HPC, MYC, OWC,WKC)

	(- <u>D</u>	
	Available Completely Online	
125	Advanced Nursing Assistant OR	6
100	Nursing Assistant Skills I AND	(3)
115	Nursing Assistant Skills II OR	(3)
100	Medicaid Nurse Aide AND	(3)
115	Nursing Assistant Skills II	
135	Basic Anatomy and Physiology with Laboratory OR	4
109	Introduction to Body Structure and Function OR	(4)
137	Human Anatomy & Physiology IAND	(4)
139	Human Anatomy & Physiology II	(4)
181	Basic Public Speaking OR	3
252	Introduction to Interpersonal Communication OR	
101	Writing I OR	(3)
200	Technical Communications	
	Computer/Digital Literacy	3
	Total Credits	16-20
	100 115 100 115 135 109 137 139 181 252 101	125 Advanced Nursing Assistant OR 100 Nursing Assistant Skills I AND 115 Nursing Assistant Skills II OR 100 Medicaid Nurse Aide AND 115 Nursing Assistant Skills II. 136 Basic Anatomy and Physiology with Laboratory OR 137 Human Anatomy & Physiology IAND 139 Human Anatomy & Physiology II 181 Basic Public Speaking OR 1252 Introduction to Interpersonal Communication OR 130 Writing I OR 131 Writing I OR 132 Technical Communications 133 Computer/Digital Literacy

# Nursing – Academic/Career Mobility Program

The Academic/Career Mobility Program provides a seamless educational option in nursing with two exit points allowing students to choose a career as an LPN or RN. The program is implemented in a shared framework which prepares graduates to use their skill and knowledge to fulfill the role of the nurse: enhance human flourishing, demonstrate sound nursing judgment, continually develop professional identity, and possess a spirit of inquiry to improve the quality of patient care. Encompassed within these roles are the core components of context and environment, knowledge and science, person/professional development, quality and safety, relationship-centered care, and teamwork. These core compo-

nents are introduced, developed, and built upon through the curriculum; however, distinct parameters have been established that support the PN and RN scopes of nursing practice. The curriculum is structured around a clearly defined organizing framework and provides the foundation for a competency-based approach to nursing education through the utilization of interactive and student-focused learning strategies. Content and performance-based outcomes for the nursing courses are selected, developed, and leveled from simple to complex. Students who successfully complete the first year will receive a diploma qualifying them to apply for licensure as practical nurses. Following successful completion of the second year, students will receive the Associate in Applied Science Degree in Nursing qualifying them to apply for licensure as registered nurses.

Acceptance into the program is based on a selective admissions process. In order to be considered for admission, applicants must comply with college and program admission requirements. Licensed practical nurses who graduated within one year of admission to the program or have practiced at least one full year within the past three years and hold a current unrestricted license for practical nursing will be admitted to the associate degree level.

Proof of active status on the Kentucky Medicaid Nurse Aide Registry or its equivalent is required prior to enrolling in the first nursing course. CPR certificate for Health Care Providers/Professional Rescuer must be obtained prior to enrolling in the first nursing course and certification must be kept current throughout the program. Documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first nursing course.

Progression in the nursing program is contingent upon achievement of a grade of "C" or better in each biological science, nursing and mathematics course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

Note: The Kentucky Board of Nursing may deny a nursing graduate admission to the NCLEX Exam if an individual has been convicted of a misdemeanor or felony which involves acts that bear directly on the qualifications of the graduate to practice nursing.

The following Practical Nursing Program is accredited by the Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 <a href="https://www.nlnac.org">www.nlnac.org</a> Telephone: (404) 975-5000.

Southeast Kentucky Community and Technical College

The following Associate Degree Nursing Program is accredited by the Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326 <a href="https://www.nlnac.org">www.nlnac.org</a> Telephone: (404) 975-5000.

Southeast Kentucky Community and Technical College

Note: Hours Exception (69-72 for the A.A.S.) approved by the KCTCS Board of Regents in June 2010.

### Associate in Applied Science

#### Academic/Career Mobility Program in Nursing - 5138017049

137

139

225

227

110

BIO

BIO

BIO

BIO

PSY

**PSY** 

 $<sup>\***</sup>$  Credit may be awarded to Licensed Practical Nurses who meet specific program requirements.

ENG	101	*Writing I	3
ENG	102	*Writing II	3
MAT	110	*Applied Mathematics OR	3
MAT	150	*College Algebra	(3)
		*Heritage/Humanities	
		*Oral Communications Course	3
NRS	101	Nursing Care I AND	9
NRS	102	Nursing Care II OR	10
NRS	200	**LPN to ADN Transition	(3)
NRS	203	Nursing Care III	9
NRS	204	Nursing Care IV	10
		Total CREDITS:	71-72

<sup>\*</sup>General Education course

\*\*Taken only by Licensed Practical Nurses who have been admitted to the program and have and have met the pre-requisites.

Note: Documentation of computer/digital literacy as defined by KCTCS is required prior to enrolling in the first nursing course .

Proof of active status on the Kentucky Medicaid Nurse Aide Registry or its equivalent is required prior to enrolling in the first nursing course. CPR certificate for Health Care Providers/Professional Rescuer must be obtained prior to enrolling in the first nursing course and certification must be kept current throughout the program.

### Diploma

### Academic/Career Mobility Program in Nursing – Practical Nursing - 5139014009

(Offered at SEC, SKY) BIO 137 \*Human Anatomy & Physiology I.......4 BIO 139 \*Human Anatomy & Physiology II ....... 4 ENG 101 MAT 110 MAT 150 \*College Algebra .....(3) PSY 110 PSY 223 NRS 101 Nursing Care I ......9 NRS 102 Total CREDITS:

Note: Documentation of computer/digital literacy as defined by KCTCS is required prior to enrolling in the first nursing course.

Proof of active status on the Kentucky Medicaid Nurse Aide Registry or its equivalent is required prior to enrolling in the first nursing course. CPR certificate for Health Care Providers/Professional Rescuer must be obtained prior to enrolling in the first nursing course and certification must be kept current throughout the program.

#### **Suggested Electives:**

88		
NRS	100	Enhancing Nursing Student Success(3)
AHS	115	Medical Terminology(3)
NSG	126	Pharmacology in Nursing(3)

# **Nursing - Integrated Nursing**

The Integrated Nursing Program provides a seamless educational pathway in nursing which allows students to choose multiple career options. The Integrated Nursing Program is designed to deliver nursing education to a cohort group of students with the opportunity to complete the Practical Nursing or Associate Degree Nursing level. The curriculum is structured around a clearly defined organizing framework and provides the foundation for a competency-based approach to nursing education through the utilization of interactive and student-focused learning strategies. Content and performance-based outcomes for the nursing courses are selected, developed, and leveled from simple to complex. Classroom instruction in theory and basic nursing skills is provided in various delivery methods. Under the guidance of program faculty, students gain

valuable experience in the care of patients across the lifespan in a variety of healthcare settings and/or community agencies including hospitals, long-term care facilities, clinics and child care centers.

The Practical Nursing option prepares graduates to function within the legal scope of practice under the supervision of a registered nurse or physician. The practical nursing level focuses on the maintenance of health and prevention of illness, the observation and nursing care of individuals experiencing changes in their health processes, and the evaluation of health practices of patients. Students who choose practical nursing as a career can complete the components in three semesters and are eligible to apply for licensure as a practical nurse. Graduates are eligible to take the National Council Licensure Examination for Practical Nurses (NCLEX-PN).

The Associate Degree Nursing option prepares graduates to provide and manage patient care and to become members within the discipline of nursing. The associate nursing level focuses on the application of a specialized body of knowledge and skills obtained from social and biological sciences in providing evidenced-based, clinically competent care to individuals across the life span. Students choosing the Associate in Applied Science degree in Nursing can complete the components in four semesters and are eligible to apply for licensure as a registered nurse. Graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Acceptance into the Integrated Nursing Program is based upon a selective admissions process. In order to be considered for admission, applicants must comply with college and program admission requirements. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, and proof of active status on the Kentucky Medicaid Nurse Aide Registry is required prior to enrolling in the first integrated nursing course. Licensed practical nurses may receive credit for the first and second semester of nursing courses based upon specific college offerings, work experience, and active licensure status.

Students select their career preference upon admission to the program, but may choose to change their career path while in the program without reapplying for admission. Requests for career path changes will require submission of an application for tract change to the nursing admissions committee.

Progression within the Integrated Nursing Program is contingent upon achievement of a grade of "C" or better in all program course requirements and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

If more than three years have elapsed since initial enrollment in any nursing program, an applicant must repeat all nursing courses.

A nursing graduate with a misdemeanor or felony conviction may be denied permission to access the NCLEX by the Kentucky Board of Nursing.

The Madisonville Community College Associate Degree Nursing program is currently accredited by:

Accreditation Commission for Education in Nursing, Inc., 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, www.nlac.org. Telephone (404) 975-5000.

Note: Hours Exception (69-72 for the A.A.S.) approved by the KCTCS Board of Regents in June 2010.

<sup>\*</sup>General Education course

### Associate in Applied Science

#### Nursing - 5138017069

(Offered at HZC, MDC)

Gene	iai Luuc	ation.	
BIO	135	Basic Anatomy and Physiology with Laboratory*	4
PSY	110	General Psychology	3
COM	181	Basic Public Speaking	3
ENG	101	Writing I	
ENG	102	Writing II	3
MAT	150	College Algebra	3
		Heritage/Humanities	
		Subtotal	22

**Technical or Support Courses:** 

Ceneral Education

		Total Credits	69-72
		Subtotal	47-50
NIP	215	Leadership and Specialty Practice	7
NIP	210	Advanced Nursing Practice	8
NIP	205	Pathophysiology for Nursing Practice	4
NIP	128	Medical Surgical Alteration	10
NIP	120	Maternal Child Nursing Care	3
AHS	100	Human Growth and Development**	
NIP	116	Fundamentals of Nursing	10
NIP	102	Introduction of Pharmacology	3
		demonstrated competency	0-3
OST	105	Introduction to Information Systems OR	
CIT	105	Introduction to Computers OR	

NOTE: CPR requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout

the program. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, is required prior to enrolling in the first nursing course.

\*BIO 137 and BIO 139 may be substituted for BIO 135.

\*\*PSY 223 may be substituted for AHS 100.

### Diploma

#### Practical Nursing - 5139014049

(Offered at HZC, MDC)

#### **General Education:**

		Subtotal	13
ENG	101	Writing I	3
COM	181	Basic Public Speaking	3
PSY	110	General Psychology	3
BIO	135	Basic Anatomy and Physiology with Laboratory*	4

Technical or Support Courses:					
CIT	105	Introduction to Computers OR			
OST	105	Introduction to Information Systems OR			
		Demonstrated competency	0-3		
NIP	102	Introduction of Pharmacology	3		
NIP	116	Fundamentals of Nursing	10		
AHS	100	Human Growth and Development**	2		
NIP	120	Maternal Child Nursing Care	3		
NIP	128	Medical Surgical Alteration			
NIP	140	Practical Nursing Role Transition			
		Subtotal	34-37		
		Total Credits	47-50		

Note: CPR requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout the program. Documentation of successful completion of a minimum 75-hour nursing assistant course, or its equivalent, is required prior to enrolling in the first nursing course.

\*BIO 137 and BIO 139 may be substituted for BIO 135.

# **Certificates** Medicaid Nurse Aide — 5139012020

MNA	100	Medicaid Nurse Aide OR	3
NAA	100	Nursing Assistant Skills I OR	(3)
NAA	125	Advanced Nursing Assistant	(6)
		Total Credits	3-6

NOTE: Madisonville Community College does not offer NAA 125

#### Kentucky Medication Aide - 5139012030

NOTE: After the student completes the second semester of the Integrated Nursing program, the student is eligible to sit for the KMA exam.

# **Nursing - Practical Nursing**

The Practical Nursing program prepares individuals to practice within the legal scope of practical nursing under the supervision of a registered nurse or physician. Use of the nursing process at the practical nursing level toward the maintenance of health and prevention of illness, the observation and nursing care of persons experiencing changes in their health processes, and the evaluation of health practices of patients are emphasized.

Classroom instruction in theory and basic nursing skills is provided on campus. Under the guidance of program faculty, students gain valuable experience in the care of all ages in a variety of health care settings and/ or community agencies - hospitals, long-term care facilities, clinics and child care centers. (Transportation to the community agencies is the responsibility of each student.)

Acceptance in the Practical Nursing program is based on a selective admission process.

Progression in the Practical Nursing program is contingent upon achievement of a grade of "C" or better in each course and maintenance of a 2.0 cumulative grade point average or better (on a 4.0 scale).

CPR requirements must be successfully completed prior to enrolling in the first nursing course and must be kept current throughout the program. Documentation of active status on the Medicaid Nurse Aide Registry or successful completion of an equivalent course within the previous three years is required prior to enrolling in the first nursing course. Documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first nursing course.

Note: The Kentucky Board of Nursing (KBN) may deny a nursing graduate admission to the NCLEX-PN Exam if an individual has been convicted of a misdemeanor or felony that involves acts that bear directly on the qualifications of the graduate to practice nursing.

#### **Practical Nurse - 5139014039**

(Offered at ASC, BLC, BSC, ELC, HEC, HPC, JFC, MYC, SKY, SMC, WKC)

### Practical Nurse Pathway 1 – Traditional - 513901401

(Offered at BLC, ELC, JFC, SKY, SMC)

#### **General Education:**

Area 1 =					
TEC	200	Technical Communications OR			
ENG	101	Writing I OR(3)			
COM	181	Basic Public Speaking OR(3)			
COM	252	Introduction to Interpersonal Communication(3)			
Area 2 =					
BIO	135	Basic Anatomy & Physiology with Laboratory OR 4			

<sup>\*\*</sup>PSY 223 may be substituted for AHS 100.

BIO	137	Human Anatomy & Physiology I AND(4)		Prac	tical Nurse – Pathway 3 – Modular - 513901403	
BIO	139	Human Anatomy & Physiology II         (4)           Subtotal         7-11	C IFI C			
		,	Area	1 =		
Techi	nical C	ore:	ENG	101	Writing I	
AHS	100	Human Growth & Development OR2			8	
PSY	110	General Psychology AND(3)	Area		Human Anatomy & Physiology I	
PSY	223	Developmental Psychology(3)	BIO BIO	137 139	Human Anatomy & Physiology I         4           Human Anatomy & Physiology II         4	
NPN	100	Introduction to Nursing & Health Care System AND 2	MAT	110	Applied Mathematics	
NPN	105	Development of Care Giver Role AND	PSY	110	General Psychology	
NPN	110	Pharmacology I OR	101	110	Subtotal 17	
NPN	115	*Practical Nursing Bridge Course(6)			77	
NPN NPN	125 130	Mental Health	Tech	nical Co	re:	
NPN	135	Pharmacology II	PSY	223	Developmental Psychology	
NPN	200	Med Surg I	AHS	115	Medical Terminology OR	
NPN	201	Child Bearing Family	CLA	131	Medical Terminology from Greek and Latin(3)	
NPN	205	Med Surg II	NPN	106	Fundamentals of Nursing Care	
NPN	210	Clinical Practicum4	NPN	108	Pharmacology in Nursing	
NPN	215	Nursing Trends & Issues	NPN	125	Mental Health	
		Subtotal 38-46	NPN	140	Nursing Care I	
		Total Conditor	NPN	201	Child Bearing Family	
		Total Credits: 45–57	NPN	208	Nursing Care II	
*Taken	by advance	ced nursing assistant and allied health graduates.	NPN	210 215	Clinical Practicum 4	
	0) 41.41.	g-1-1-1-1-1	NPN	213	Nursing Trends & Issues	
P	ractica	I Nurse – Pathway 2 – Traditional Modified - 513901402			Subtotal	
•	1401104	(Offered at ASC, BSC, HEC, HPC, MYC, WKC)			Total Credits: 56	
Gene	ral Edu	ucation:			Certificates	
Area	1 =				outinoatos	
TEC	200	Technical Communications OR			Medicaid Nurse Aide - 5139012020	
ENG	101	Writing I OR(3)	(Offa	rad at ASC	BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,	
COM	181	Basic Public Speaking OR(3)	ОДЕ	iea ai ASC,		
COM	252	Introduction to Interpersonal Communication(3)			SEC, SKY, SMC,WKC)	
Area	2 =		MNIA	100	Available Completely Online	
BIO	135	Basic Anatomy & Physiology with Laboratory OR4	MNA NAA	100 100	Medicaid Nurse Aide OR	
BIO	137	Human Anatomy & Physiology I AND(4)	NAA	125	Advanced Nursing Assistant(6)	
BIO	139	Human Anatomy & Physiology II(4)	1 12 12 1	123	Total Credits 3-6	
		Subtotal 7-11				
Techi	nical C	ore:			Kentucky Medication Aide - 5139012030	
AHS	100	Human Growth & Development OR	(Offa	rad at ASC	BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,	
PSY	110	General Psychology AND(3)	ОДЕ	iea ai ASC,	SEC, SKY, SMC, WKC)	
PSY	223	Developmental Psychology(3)	KMA	100		
AHS	120	Medical Terminology OR	NIVI/1	100	Kentucky Medication Aide	
AHS	115	Medical Terminology OR(3)			Total cicuits	
CLA	131	Medical Terminology from Greek and Latin OR(3)				
MIT	103	Medical Office Terminology(3)			Occupational Therapy	
NPN	101	Nursing Fundamentals AND			uuuupatiullai Tilbi ahy	
NPN	111	Pharmacology OR			Assistant	
NPN	115	*Practical Nursing Bridge Course			Assistant	
NPN	125	Mental Health				
NPN	135	Introduction to Health Deviations	The C	Occupation	nal Therapy Assistant Program is designed to provide a	
NPN NPN	201 202	Child Bearing Family			onal experience that will train prospective professionals in	
NPN	202	Med-Surg II Alterations			nce of promoting and maintaining the holistic health and	
NPN	210	Clinical Practicum			ple, organizations, and populations through engagement	
NPN	215	Nursing Trends & Issues			Graduates will be able to perform/engage as entry level	
		Subtotal 38-47			nder the supervision of an Occupational Therapist (OT).	
		Total Credits 45-58	Gradı	iates will	develop skills necessary for employment as Certified Oc-	
Reco	mmen	ded Electives:			rapy Assistants, thereby meeting the students' individual expressed health-care needs of the local and extended	
FHM	100	Dosage Calculations(2)			erved by the Colleges. The program strives to fill a grow-	
MAT	110	Applied Math(3)			ofessionals able to contribute to all facets of occupational	
AHS	105	Introductions to Health Occupations(3)	-	_	ommunity-based programs to client-centered interven-	
AHS	130	Infection Control(2)			am promotes the value and professional importance of	

tion. The program promotes the value and professional importance of

life-long learning.

Infection Control .....(2)

Selected Topics in Nursing: (Topic) ......(1-4)

AHS

NSG

130

<sup>\*</sup>Taken by advanced nursing assistant and allied health graduates.

A basic background in natural sciences, mathematics, communication, and behavioral sciences undergirds the specialized course work. Specialized course work prepares students for the certification examination they will take to become Certified Occupational Therapy Assistants (COTA). Employment may be in hospitals, rehabilitation facilities, nursing homes, clinics, and other health care facilities, as well as within pediatric, community, or educational settings.

Acceptance in to the OTA program is based on a selective admission process. In order to be considered for admission, applicants must comply with college and program admissions requirements. Students enrolled in the OTA program must achieve a minimum grade of a "C" in each OTA course and prerequisite courses.

CPR requirement must be successfully completed prior to enrolling in the first semester of OTA program. The CPR course must be Professional or Healthcare Provider.

Background check and drug screen prior to admission is required by all students, and students with a misdemeanor or felony conviction may be denied permission to access fieldwork sites.

Students will be responsible for their own transportation for fieldwork.

Documentation of computer literacy as defined by KCTCS is required prior to enrolling in the first OTA course.

All prerequisite courses must be complete before a student is admitted in the OTA program.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council on Occupational Therapy Education (ACOTE), of the American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, Suite 200 Bethesda, MD 20814-3449 Phone number: (301) 652-(AOTA). Graduates of the program will be able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Note: An OTA graduate with a misdemeanor or felony conviction may be denied permission to access the NBCOT certification exam. The student is responsible for contacting NBCOT prior to admission.

### Associate in Applied Science

### Occupational Therapy Assistant - 5108037009

(Offered at JFC, MDC)

Genera	ıl Educa	ation Core:	
ENG	101	Writing I	3
PSY	110	General Psychology	3
PSY	223	Developmental Psychology	3
COM	181	Basic Public Speaking OR	3
COM	252	Introduction to Interpersonal Communication	
		Heritage/Humanities	3
		Total	15

### Pathway # 1 - 510803701

(Offered at MDC)

BIO	135	Basic Anatomy and Physiology with Laboratory**	4
MAT	150	College Algebra	3

 $<sup>**(</sup>BIO\ 137\ \&\ BIO\ 139)$  will be accepted as equivalent for BIO 135 required course.

Addi AHS	120	Fechnical Support Course (MCC Only):  Medical Terminology
		Subtotal Credits (MCC Only)
Techi	nical C	ore:
OTA	101	Introduction to Occupational Therapy
OTA	126	Level IA Fieldwork
OTA	146	Occupational Therapy in Mental Health
OTA	136	Physical Dysfunction
OTA	226	Level IB Fieldwork
OTA	246	Pediatric Issues in Occupation Therapy
OTA	256	Elder Issues in Occupational Therapy
OTA	206	Community Practice
OTA	236	Professional Transitions and Management
OTA	267	Level IIA Fieldwork
OTA	277	Level IIB Fieldwork.
01.1		Subtotal
Addi	tional'	Technical Courses (MCC only):
OTA	113	Applied Anatomy and Kinesiology
OTA	115	Skills and Interventions I
OTA	125	Assistive Technology and Documentation
OTA	225	Skills and Interventions II
OTA	286	Clinical Seminar
OIM	200	Total Additional Technical Credits
		Alternate Pathway #1 for MCC/Total Credits
		Pathway #2 - 510803702
		(Offered at JFC)
		tion Core:
ENG	101	Writing I
PSY	110	General Psychology
PSY	223	Developmental Psychology
COM	181	Basic Public Speaking OR
COM	252	Introduction to Interpersonal Communication(
		Heritage/Humanities
Δddi	tional	General Education (JCTC Only):
BIO	137	Human Anatomy and Physiology I
BIO	139	Human Anatomy and Physiology II
MAT	110	Applied Mathematics OR
MAT	150	College Algebra
SOC	101	Introduction to Sociology
ENG	102	Writing II
Techi	nical C	ore.
OTA	101	Introduction to Occupational Therapy
OTA	126	Level IA Fieldwork
OTA	146	Occupational Therapy in Mental Health
OTA	136	Physical Dysfunction
OTA	226	Level IB Fieldwork
OTA	246	Pediatric Issues in Occupation Therapy
OTA	256	Elder Issues in Occupational Therapy
OTA	206	Community Practice
OTA	236	Professional Transitions and Management
OTA	267	Level IIA Fieldwork
OTA	277	Level IIB Fieldwork.
01.1		Subtotal
Addi	tional'	Technical Courses (JCTC only):
OTA	116	Media Principles & Procedures I
OTA	216	Media Principles & Procedures II
Reco	mmen	ded Additional Technical Courses (JFC only):
OTA	286	Clinical Seminar( Total Additional Technical Credit
		Alternate Pathway for JCTC/Total Credits

### Paralegal Technology

The Paralegal Technology curriculum is designed to prepare a person for entry-level employment as a paralegal in courts, corporations, law firms, and government agencies. Paralegal Technology is a program of study that requires courses in the technical area. In addition, the Associate in Applied Science degree also requires general education courses.

The curriculum is based on standards developed from the National Association of Legal Assistants' Descriptions of Certified Legal Assistant (CLA) Exam Sections. Additional research data used in the development of publication was collected from a review of related literature.

Industry standards are based on the National Association of Legal Assistants' Descriptions of Certified Legal Assistant (CLA) Exam Sections.

The successful completion of the Paralegal Technology Program should provide the student the opportunity for employment as a paralegal in private law firms, courts, trust departments of banks, corporations, and government agencies.

Progression in the Paralegal Technology program is contingent upon achievement of a grade of "C" or better in each paralegal technical course.

The Associate in Applied Science degree received upon completion of this concentration is not designed for transfer to a senior college or university. It is designed for immediate employment preparation.

+Students should contact the senior college or university of their choosing to determine what, if any, courses will be accepted as transfer credits.

### Associate in Applied Science

### Paralegal Technology - 2203027019

 (Offered at MDC)

 Writing I
 3

 Quantitative Reasoning
 3

 Natural Sciences
 3

 Social/Behavioral Sciences\*
 3

 Heritage/Humanities
 3

IOL	101	American Government	
COM	181	Basic Public Speaking	3
		Subtotal	21
Techr	nical S	upport Courses:	
Techr	nical S	upport Courses: Computer/Digital Literacy Course	3

		Computer/Digital Literacy Course	3
CIT	130	Productivity Software	3
		Criminal Justice Elective Course**	3
		Subtotal	9
Tech	nical C	Courses:	
PGL	111	Legal Systems and Terminology	3
PGL	112	Legal Research	
PGL	113	Law Office Management	
PGL	211	Family Law	3
PGL	212	Legal Writing	3
PGL	221	Wills and Estates	3
PGL	213	Civil Litigation I	3
PGL	214	Real Property I	3
PGL	223	Civil Litigation II	3
PGL	224	Real Property II	3
PGL	231	Torts	
PGL	233	Ethics	3
		Subtotal	36

\*PSY 110 (General Psychology) OR SOC 101 (Introduction to Sociology) recommended.
\*\*CR[ 100 (Introduction to Criminal Justice) OR CR[ 216 (Criminal Law) recommended.

Total

### Certificate

### Paralegal Technology - 2203023019

### (Offered at MDC)

ENG	101	Writing I	3
		Computer/Digital Literacy Course	3
CIT	130	Productivity Software	3
PGL	111	Legal Systems and Terminology	3
PGL	112	Legal Research	
PGL	211	Family Law	3
PGL	212	Legal Writing	
PGL	213	Civil Litigation I	3
PGL	221	Wills and Estates	3
PGL	214	Real Property I	3
PGL	223	Civil Litigation II	3
PGL	224	Real Property II	3
PGL	231	Torts	3
		Total	39

### Pharmacy Technology

The pharmacy technician performs technical functions under the direction of a Registered Pharmacist; including prescription preparation, inventory, repackaging, and compounding. The essential elements of this program include the history of pharmacy, pharmacy law, medical terminology, drug classification and prescription preparation. Laboratory experience and an externship under the supervision of a licensed pharmacist are required components of the program.

Progression in the Pharmacy Technician program is contingent upon achievement of a grade of "C" or above in each required course and maintenance of a 2.0 cumulative grade-point average or above (on a 4.0 scale).

### Diploma

### Pharmacy Technician II - 5108054029

(Offered at ASC, JFC, SMC)

#### General Education:

Area	1 =	
COM	181	Basic Public Speaking OR
COM	252	Introduction to Interpersonal Communication(3)
Area	2 =	
BIO	130	Aspects of Human Biology OR
BIO	135	Basic Anatomy and Physiology with Laboratory OR(4)
BIO	137	Human Anatomy & Physiology I AND(4)
BIO	139	Human Anatomy & Physiology II(4)
		Subtotal 6-11
		Digital Literacy 0-3
EFM	100	Personal Financial Management OR
BAS	120	Personal Finance OR(3)
WPP	200	Workplace Principles(3)
AHS	115	Medical Terminology OR
CLA	131	Medical Terminology from Greek and Latin OR(3)
MIT	103	Medical Office Terminology(3)
PHA	110	Pharmacy Procedures and Skills6
PHA	125	Pharmaceutical Calculations
PHA	136	Pharmacology
PHA	200	Admixtures for IV Therapy
PHA	205	Admixture Preparations
PHA	210	Drug Classifications
PHA	250	Pharmacy Experience
		Subtotal 28-38

34-49

**Total Credits** 

ENG

### Additional Suggested Courses (Not Required):

AHS 100 – Human Growth and Development (2)

AHS 130 - Infection Control (2)

AHS 201 – Management Principles for Allied Health Providers (3)

AHS 203 - Diversity in Health Care (3)

BAS 160 – Introduction to Business (3)

KHP 190 - First Aid and Emergency Care (2)

### **Certificates**

### Pharmacy Technician I - 5108053029

		(Offered at ASC, HPC, JFC, OWC, SMC,WKC)
COM	181	Basic Public Speaking OR
COM	252	Introduction to Interpersonal Communication OR(3)
COM	101	Introduction to Communications*(3)
AHS	115	Medical Terminology OR
CLA	131	Medical Terminology from Greek and Latin OR(3)
MIT	103	Medical Office Terminology(3)
PHA	110	Pharmacy Procedures and Skills6
PHA	125	Pharmaceutical Calculations
PHA	136	Pharmacology
PHA	104	Parenterals**
PHA	250	Pharmacy Experience
		Digital Literacy 0-3
		Total Credits 21-24

### Retail Pharmacy Technician - 5108053039

		Moturi i marinady rodninionani – droddoddo	
		(Offered at ASC, GTW, HPC, JFC, SMC)	
COM	181	Basic Public Speaking OR	3
COM	252	Introduction to Interpersonal Communication OR	(3)
COM	101	Introduction to Communications*	(3)
AHS	115	Medical Terminology OR	3
CLA	131	Medical Terminology from Greek and Latin OR	(3)
MIT	103	Medical Office Terminology	(3)
PHA	110	Pharmacy Procedures and Skills	6
PHA	125	Pharmaceutical Calculations	2
PHA	136	Pharmacology	
		Digital Literacy	0-3
		Total Credits	17-20

\*COM 101 may be used in certificates. If taken in the diploma, an additional three (3) credits will be needed to meet Area 1 requirements.

\*\*PHA 200 and PHA 205 may substitute for PHA 104 but PHA 104 will not substitute for PHA 200 and PHA 205.

### **Physical Therapist Assistant**

This program prepares the individual to become a physical therapist assistant (PTA) who is able to perform selected components of intervention and data collection under the direction and supervision of a physical therapist. The program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE\*).

The curriculum combines general education and physical therapy courses. Various facilities are utilized for clinical experiences. The graduate is eligible to sit for the national licensing examination for the physical therapist assistant. Enrollment in this program is limited; therefore, a selective admissions process is followed.

Students enrolled in the Physical Therapist Assistant program must achieve a minimum grade of "C" in each required general education course; a minimum grade of "C" in each required PTA didactic course; and a grade of pass in each clinical practicum course to complete the program.

CPR requirements must be attained by completing a program-approved CPR course prior to enrolling in the first physical therapist assistant course and must be kept current throughout the program.

\*The Physical Therapist Assistant programs at Hazard Community and Technical College / Southeast Kentucky Community and Technical College, Jefferson Community and Technical College, Madisonville Community College, Somerset Community College, and West Kentucky Community and Technical College are accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) 1111 North Fairfax Street, Alexandria VA, 22314; telephone: 703-706-3245; e-mail: accreditation@apta.org; website: www.capteonline.org.

### Associate in Applied Science

### Physical Therapist Assistant - 5108067049

(Offered at HZC, JFC, MDC, SEC, SMC, WKC)

### Pathway 1 - 510806703

(Offered at HZC, JFC, SEC, SMC, WKC)

#### General Education:

ENG	101	writing i	
BIO	137	Human Anatomy and Physiology I	4
BIO	139	Human Anatomy and Physiology II	4
		Heritage/Humanities	
PSY	110	General Psychology	3
PSY	223	Developmental Psychology	3
MAT	150	College Algebra	
		Oral Communications	3
		Subtotal	26

#### **Technical Courses:**

		Digital Literacy	0-3
PTA	100	Orientation to Physical Therapy Practice	4
PTA	125	Neuroanatomy for the PTA	
PTA	150	Functional Anatomy and Kinesiology	6
PTA	160	Medical and Surgical Conditions in Physical Therapy.	
PTA	170	Clinical Practicum I	1
PTA	200	Modalities and Procedures in Physical Therapy	5
PTA	220	Physical Therapy Principles and Procedures	5
PTA	240	Clinical Practicum II	2
PTA	250	Neurological Rehabilitation in Physical Therapy	5
PTA	260	Seminar in Physical Therapy	2
PTA	280	Clinical Practicum III	5
		Subtotal	39-42
		Total Credits (Pathway 1)	65-68

### Pathway 2 - 510806704

(Offered at MDC)

#### General Education:

ENG	101	Writing I	3
BIO	137	Human Anatomy and Physiology I	4
BIO	139	Human Anatomy and Physiology II	4
		Heritage/Humanities	
PSY	110	General Psychology	3
PSY	223	Developmental Psychology	3
MAT	150	College Algebra	
COM	181	Basic Public Speaking	3
		Subtotal	26

#### **Technical Support Courses**

recin	ilicai s	apport Courses.	
AHS	105	Introduction to Allied Health Occupations	3
		Subtotal	3

#### **Technical Courses:**

		Digital Literacy 0-3
PTA	1501	Functional Anatomy & Kinesiology Lab
PTA	1502	Functional Anatomy & Kinesiology Lecture
PTA	120	Basic Skills for the PTA
PTA	121	Basic Skills for the PTA Lab
PTA	170	Clinical Practicum I

PTA	222	Pathology & Rehabilitation of Orthopedic Conditions2	Techi	nical C	ourses:	
PTA	223	Pathology & Rehabilitation of Orthopedic Conditions Lab 2			Computer/Digital Literacy	3
PTA	232	Pathology & Rehabilitation of Neurological & Pediatric	PLB	150	Plumbing, Introduction to the Trade AND	3
		Conditions	PLB	151	Basic Plumbing Skills OR	3
PTA	233	Pathology & Rehabilitation of Neurological & Pediatric	PLB	100	Basic Theory of Plumbing AND	
		Conditions Lab	PLB	105	Plumbing Principles	(3)
PTA	202	Therapeutic Modalities in Physical Therapy	PLB	160	Plumbing Systems, DWV & Water	3
PTA	203	Therapeutic Modalities in Physical Therapy Lab	PLB	161	Rough-In of Plumbing Fixtures	
PTA	240	Clinical Practicum II	PLB	250	Plumbing Appliances & Fixtures	3
PTA	254	Pathology & Rehabilitation of Special Populations &	PLB	251	Pumps & Water Heaters	
		Conditions	PLB	260	Service AND	
PTA	255	Pathology & Rehabilitation of Special Populations &	PLB	261	Advanced Plumbing Lab OR	
		Conditions Lab	PLB	265	Valve & Faucet Repairs AND	
PTA	260	Seminar in Physical Therapy	PLB	267	Water Heater Service & Replacement AND	
PTA	280	Clinical Practicum III	PLB	269	Sewer & Drain Cleaning	
		Subtotal 35-38	PLB	262	Back Flow Prevention	
		T-4-1 Co. 14- (P-4) . 2) (4-67)	PLB	270	License Preparation for Journeyman Exam	3
		Total Credits (Pathway 2) 64-67	PLB	298	Plumbing Practicum/Repairs & Maintenance OR	4
			PLB	299	Plumbing Cooperative Education	(4)
		Diagtica Draggaina	BRX	220	Blueprint Reading for Construction	3
		Plastics Processing	BAS	120	Personal Finance OR	3
		8	EFM	100	Personal Financial Management	(3)
The P	Plastics P	rocessing certificate will prepare students for an entry-	WPP	200	Workplace Principles OR	3
		in plastics processing companies.	BAS	250	Business Employability Seminar	(1)
icver j	position	in plastes processing companies.	ISX	101	Introduction to Industrial Safety OR	
		Cartificata	ISX	100	Industrial Safety	
		Certificate			Subtotal	42-45
		DI 1' D ' 4500070040			Total	(0. (2
		Plastics Processing - 1506073049			Total	60-63
		(Offered at MYC)			Dinlomo	
ITE	233	Statistical Process Control			Diploma	
ELT	107	Computer Applications for Technicians4			DI I II I 1000001040	
ISX	101	Introduction to Industrial Safety			Plumber Mechanic - 4605034019	
PL	101	Plastic Processes and Materials			(Offered at ELC, JFC, MYC, SMC)	
PL	151	Polymer Science & Testing4	Como	ual Edi	acation:	
PL	251	Injection Molding OR4	Area 1		Written Communication, Oral Communications, or	
PL	261	Plastics Extrusion(4)	All Ca I	_		2
		Total Credits 22	Area 2	_	Heritage/Humanities	_
			MICa 2	_	Quantitative Reasoning Subtotal	6
		Dlumbing Tooksologu			Subtotal	U
		Plumbing Technology	Techi	nical C	ourses:	
					Computer/Digital Literacy course or	
Install	ling wate	er supply and waste disposal systems in residential, com-			demonstrated competency	0-3
		highly complex industrial sites is the focus of the plumbing	PLB	150	Plumbing, Introduction to the Trade AND	
			PLB	151	Basic Plumbing Skills OR	
		ddition to practical experiences, instruction is given in	PLB	100	Basic Theory of Plumbing AND	
		s, blueprint reading, drawing, special equipment and other	PLB	105	Plumbing Principles	
relate	d areas.		PLB	160	Plumbing Systems, DWV & Water	
D			PLB	161	Rough-In of Plumbing Fixtures	
		n the Plumbing technology program is contingent upon	PLB	250	Plumbing Appliances & Fixtures	
		of a grade of "C" or better in each PLB and BRX course and	PLB	251	Pumps & Water Heaters	
maint	enance of	of a 2.0 cumulative grade point average or better (on a 4.0	PLB	260	Service AND	
scale)			PLB	261	Advanced Plumbing Lab OR	
			PLB	265	Valve & Faucet Repairs AND	
		Associate in Applied Science	PLB	267	Water Heater Service & Replacement AND	
		noovolato ili nppiiva voivilvo	PLB	269	Sewer & Drain Cleaning	
		Plumbing Technology - 4605037019	PLB	262	Back Flow Prevention	
		<u> </u>	PLB	270	License Preparation for Journeyman Exam OR	
		(Offered at ELC)	PLB	298	Plumbing Practicum/Repairs & Maintenance OR	
Gene	eral Edu	ication:	PLB	299	Plumbing Cooperative Education	
ENG	101	Writing I	BRX	220	Blueprint Reading for Construction	
_		Quantitative Reasoning	EFM	100	Personal Financial Management OR	
		Social/Behavioral Sciences	BAS	120	Personal Finance	
		Heritage/Humanities	WPP	200	Workplace Principles OR	
		Natural Sciences	BAS	250	Business Employability Seminar	
		Oral Communications	ISX	101	Introduction to Industrial Safety OR	
		Subtotal 18	ISX	100	Industrial Safety	
					Subtotal	39-45
					Total	/E E1
					Total	45 - 51

		Certificates			Plumber Estimator - 4605033099
		Cortified Dealeflow Tooter* 4C0E022070	DI D	150	(Offered at BSC, ELC, JFC, MYC) Plumbing, Introduction to the Trade AND
		Certified Backflow Tester* - 4605033079	PLB PLB	150 151	Basic Plumbing Skills OR
		(Offered at BSC, ELC, JFC, MYC)	PLB	100	Basic Theory of Plumbing AND(3)
PLB	262	Backflow Prevention	PLB	105	Plumbing Principles(3)
		Total 3	PLB	160	Plumbing Systems, DWV & Water AND
*Requi	res that th	ne graduate pass a written test with 80% accuracy and a 3-part	PLB	161	Rough-In of Plumbing Fixtures OR
. *	nance tes		PLB	250	Plumbing Appliances & Fixtures AND(3)
P			PLB	251	Pumps & Water Heaters(2)
		Finish Plumber - 4605033069	PLB	261	Advanced Plumbing Lab OR
		(Offered at BSC, ELC, JFC, MYC)	PLB	265	Valve & Faucet Repairs AND(1)
PLB	150	Plumbing, Introduction to the Trade AND	PLB	267	Water Heater Service & Replacement AND(1)
PLB	151	Basic Plumbing Skills OR	PLB	269	Sewer & Drain Cleaning(1)
PLB	100	Basic Theory of Plumbing AND(3)	PLB	270	License Preparation for Journeyman Exam
PLB	105	Plumbing Principles(3)	BRX WPP	220 200	Blueprint Reading for Construction
PLB	250	Plumbing Appliances & Fixtures	BAS	250	Workplace Principles OR         3           Business Employability Seminar         (1)
PLB	251	Pumps & Water Heaters	DAG	230	Mathematics
		Electives (Technical Core)			Computer/Digital Literacy0-3
		Total 17			Total 23-29
					29 27
		Maintenance Plumber - 4605033049			Plumber's Helper - 4605033129
		(Offered at BSC, ELC, JFC, MYC)			•
PLB	150	Plumbing, Introduction to the Trade AND	DI D	150	(Offered at ELC, GTW, JFC, MYC, SMC) Plumbing, Introduction to the Trade AND
PLB	151	Basic Plumbing Skills OR	PLB PLB	150 151	Basic Plumbing Skills OR
PLB	100	Basic Theory of Plumbing AND(3)	PLB	100	Basic Theory of Plumbing AND(3)
PLB	105	Plumbing Principles(3)	PLB	105	Plumbing Principles(3)
PLB	115	Plumbing Applications	1 LD	103	Elective (Technical Core)
ISX	101	Introduction to Industrial Safety OR			Total 9
ISX	100	Industrial Safety(3)			
		Total 13			Rough Plumber - 4605033059
		1et Voor Dlumber Machania 4005022100			(Offered at ELC, JFC, MYC)
		1st Year Plumber Mechanic - 4605033109	PLB	150	Plumbing, Introduction to the Trade AND
		(Offered at BSC, ELC, JFC, MYC, SMC)	PLB	151	Basic Plumbing Skills OR
PLB	150	Plumbing, Introduction to the Trade AND	PLB	100	Basic Theory of Plumbing AND(3)
PLB	151	Basic Plumbing Skills OR	PLB	105	Plumbing Principles(3)
PLB PLB	100 105	Basic Theory of Plumbing AND(3)	PLB	160	Plumbing Systems, DWV & Water
PLB	160	Plumbing Principles	PLB	161	Rough-In of Plumbing Fixtures
PLB	161	Rough-In of Plumbing Fixtures			Electives (Technical Core)
PLB	250	Plumbing Appliances & Fixtures			Total 17
PLB	251	Pumps & Water Heaters			
		Total 16			Service & Repair Plumber - 4605033089
					(Offered at ELC, JFC, MYC)
		2nd Year Plumber Mechanic* - 4605033119	PLB	150	Plumbing, Introduction to the Trade AND
		(Offered at BSC, ELC, JFC, MYC, SMC)	PLB	151	Basic Plumbing Skills OR
PLB	150	Plumbing, Introduction to the Trade AND	PLB	100	Basic Theory of Plumbing AND(3)
PLB	151	Basic Plumbing Skills OR	PLB	105	Plumbing Principles(3)
PLB	100	Basic Theory of Plumbing AND(3)	PLB	160	Plumbing Systems, DWV & Water
PLB	105	Plumbing Principles(3)	PLB	161	Rough-In of Plumbing Fixtures
PLB	160	Plumbing Systems, DWV & Water	PLB	250	Plumbing Appliances & Fixtures
PLB	161	Rough-In of Plumbing Fixtures 2	PLB	251	Pumps & Water Heaters
PLB	250	Plumbing Appliances & Fixtures	PLB	260	Service & Code Review
PLB	251	Pumps & Water Heaters	PLB DI B	261	Advanced Plumbing OR
PLB	262	Backflow Prevention	PLB PLB	265 267	Valve & Faucet Repairs AND
PLB	260	Service AND	PLB	269	Sewer & Drain Cleaning(1)
PLB	261	Advanced Plumbing Lab AND	1 LD	207	Total 20-21
PLB	270	License Preparation for Journeyman Exam OR			20-21
PLB	260	Service AND(2)			B 4 1 10 6 5
PLB	265	Valve & Faucet Repairs AND(1)			Professional Craft: Pottery
PLB PLB	267 269	Water Heater Service & Replacement AND(1)			i rotossional oralli i ollory
ı LD	207	Sewer & Drain Cleaning(1) Total 24-26	Thia	MO (770 -	n is designed to propose individuals for employment as pro

24-26

\*Requires that the graduate pass a written test with 80% accuracy and a 3-part performance test

This program is designed to prepare individuals for employment as professional potters or in pottery-related fields. The curriculum introduces both traditional and contemporary concepts of pottery. The program provides training in technical skills, design skills, and marketing and business essentials. Course work includes development of basic and advanced throwing skills with emphasis on form and design. Study will include pottery studio design and marketing procedures for the professional potter. Graduates will be able to open and operate their own pottery, work for existing pottery businesses, or transfer to a four-year degree program. Upon completion, graduates will receive an Associate in Applied Science degree.

### Kiln Building for Professional Potters Certificate:

Includes instruction in the methods of kiln construction, the principles used in designing kilns, and instruction in how to prepare layouts for building kilns. Topics include safety, historical and perspective, materials, design, type, fuels, and firing process. The program will also provide students with hands on experience in the building of kilns for use by professional potters. Students will participate in the building of two different types of kilns using two different types of fuels. Upon successful completion of the program, students will be able to supervise the construction of kilns for use by professional potters.

### **Professional Raku Pottery Certificate:**

Provides students with advanced instruction in the techniques of producing and firing raku pottery. The program provides instruction in advanced shapes and decoration; constructing, loading, and firing a personal raku kiln; and the creation of a body of work for a one-person show and sale.

### Certificates

### Kiln Building for Professional Potters - 5007113029

		(Offered at SEC)	
PC	110	Introduction to Pottery	7
PC	250	Professional Kiln Design	5
PC	252	Professional Kiln Building	5
		Total	17
		Professional Raku Pottery - 5007113019 (Offered at SEC)	
PC	110	-	7
PC PC	110 254	(Offered at SEC)	
		(Offered at SEC) Introduction to Pottery	5
PC	254	(Offered at SEC) Introduction to Pottery Professional Raku Pottery I	5

### **Professional Studio Artist**

The Professional Studio Artist (PSA) program prepares individuals for careers as independent studio artists and business owners, designers, performers and studio technicians. The curriculum offers technical, design, product development and performance classes in a variety of disciplines coupled with business, marketing and management courses. Class work covering the history and traditions of each discipline, basic studio development and technology requirements will be a vital part of the student's education. Students will complete an track of study and acquire the necessary technical proficiencies, creative problem solving, business skills, production processes and the knowledge to apply these aspects to careers in the craft, music, theater, or applied arts fields.

The AASTrack in Wood/Furniture Design prepares a student to start a business in studio furniture design and manufacturing, begin employment as a designer/maker for a small to mid-size woodworking company, work as a model maker/prototype builder for the wood/furniture industry, work as a furniture maker/technician, start a career as a furniture conservationist, or pursue a four-year degree. The program of study will offer a diverse and comprehensive study in furniture design and making;

the technology of wood as a material; the technical aspects of wood machinery and hand tool usage; the importance and applications of drawing and design; and the practicality of business ownership, craft marketing and business management.

The diploma in Wood Studio Technician and the certificate in Furniture Making Fundamentals will afford students the opportunity to acquire specialized and basic technical skills as furniture makers. The Wood Studio Certificate will give the student an intensive foundation in woodworking techniques and studio practice. The diploma and certificate programs signify that the student possesses a basic understanding of woodworking and furniture making procedures necessary for entry level positions in the custom furniture industry.

The AAS Jewelry/Metals Track prepares a student to start a business in studio jewelry design, producing one-of-a-kind and limited production works for the private market; work in a commercial studio as a professional jeweler or as a model designer/fabricator; or to enter into the field of jewelry/metal conservation. Creative problem solving and functional design are essentials to the program as well as extensive laboratory coursework in all aspects of bench jewelry repair, the metallurgical science of precious metals, traditional and non-traditional metal processes, processes of jewelry mass production, silversmithing, goldsmithing and work in new technologies such as computer-aided jewelry design.

The diploma in Jewelry/Metals Technician and the certificate in Jewelry/Metals Fundamentals will afford students the opportunity to acquire specialized and basic technical skills as jewelry makers and technicians. The Jewelry Studio certificate will give the student an intensive foundation in metals technique and studio practice. The diploma and certificate programs signify that the student possesses a basic understanding of jewelry design and making procedures necessary for entry level positions in the custom or commercial jewelry industry.

The AAS Track n Bluegrass & Traditional Music prepares a student to begin work as a professional bluegrass and traditional musician in the areas of performance, touring, studio recording, studio engineering, and song writing. The track also provides training in music business, management and event promotion while providing the student preparation to pursue a four year degree. Program studies will offer in-depth mentoring and "real world" performance situations for solo, ensemble, and instrumental musicians as well as recording session set-up, sound enhancement and band management.

The diploma in Bluegrass & Traditional Studio Artist and the certificate in Bluegrass & Traditional Music Fundamentals will afford students the opportunity to acquire training in the basics of performance, recording, songwriting and management. The diploma and certificate programs signify that the student possesses a basic understanding of the major components necessary for an entry level career in Bluegrass and Traditional Music.

The AAS track in Ceramics prepares a student to start a business in studio production for pottery, tiles, slip casting, mold making and/or kiln building; begin employment as a studio technician to maintain equipment and manage various kinds of kiln firings; work for commercial ceramics businesses as a production designer, decorator, mold-maker, decal maker, conservationist, kiln and/or glaze technician; or to pursue higher degrees in the field of ceramics. The program is design to prepare students to become independent and self-reliant ceramicists in creative and functional design.

The diploma in Ceramics Studio Technician and the certificate in Ceramics Fundamentals will afford students the opportunity to acquire specialized and basic technical skills as a ceramicist and technician. The Ceramics Studio Certificate will give the student an intensive foundation in

grams	signify	nique and studio practice. The diploma and certificate pro- that the student possesses a basic understanding of ceramic		Bl	uegrass and Traditional Music Track - 500201703 (Offered HZC)	
-	_	and making necessary for entry level positions in custom or	BAS	200	Small Business Management	3
comm	iercial ce	eramic industry.	ACT	101	Fundamentals of Accounting I	3
Б		f le le le roman	MUS	174	Theory for Non-Music Majors	
		on of computer literacy as defined by KCTCS is required	MUC	150	Classic Instruction to Piano OR	0-1
prior	to enroi	ling in the first PSA course.	DCM	101	Competency by audition	2
		Associate in Applied Colones	PSM PSM	101 105	Bluegrass & Traditional Music History I	
		Associate in Applied Science	PSM	103	Recording I	
		Durforeignal Charles Autist F000017010	PSM	112	Individual String Instrument Instruction x 3 or 3	3-4
		Professional Studio Artist - 5002017019	PSM	113	Guitar I OR	0-1
		(Offered at HZC)			Competency by audition	
ENG	101	Writing I	PSM	114	Bluegrass & Traditional Band/Ensemble x4	8
MAT	110	Applied Mathematics OR	PSM	118	Bluegrass & Traditional Harmony/Part Singing	
COM	252	Any higher level Quantitative Reasoning course(3)	PSM	121	Bluegrass & Traditional Music History II	
COM		Introduction to Interpersonal Communications OR 3	PSM	125	Recording II OR	
COM	181	Basic Public Speaking	PSM	117	Songwriting II	(1)
		Heritage/Humanities**	PSM	231	Bluegrass & Traditional Music III	
		Social/Behavioral Sciences 3	PSM	235	Recording III OR	
		Subtotal 18-19	PSM PSM	217 245	Songwriting III	
		10 17	PSM	227	Songwriting IV	
**HUN	1 202 for l	Bluegrass and Traditional Music Track	PSA	240	Professional Artist Seminar	
			1 5/1	210		42-45
		Wood/Furniture Design Track - 500201701				
		(Offered at HZC)			Total Credits	60-64
ART	110	Drawing I	PSM	241	Bluegrass & Traditional Music IV	(3)
ART	120	2-Dimensional Design	PSM	250	Field Experience/Production Business	
ART	130	3-Dimensional Design			1	( )
BAS	200	Small Business Management			Ceramics Track - 500201704	
ACT	101	Fundamentals of Accounting I			(Offered HZC)	
PSW	111	Introduction to Furniture Making	ART	110	Drawing I	3
PSW	115	Furniture Making II	ART	120	2-Dimensional Design	
PSW PSW	116 117	Wood Finishing	ART	130	3-Dimensional Design	
PSW	210	Wood Turning for Furniture         3           Furniture Making III         3	BAS	200	Small Business Management	3
PSW	211	Wood Bending and Veneering	ACT	101	Fundamentals of Accounting I	
PSW	212	Chair Design	PSC	112	Ceramics I	
PSW	215	Furniture Making IV	PSC	115	Ceramics II	
PSW	220	Furniture/Wood Product Development2	PSC	117	Glaze Calculations	
PSA	240	Professional Artist Seminar	PSC	210 211	Ceramics III.	
		Sub-Total 43	PSC PSC	211	Kiln Operation and Design	
		Total Credits 61-62	PSC	215	Ceramics IV	
			PSC	220	Ceramics Product Development	
PSW	230	Furniture Making V (Optional)(6)	PSC	230	Ceramics V	
		L L. /M. L. L. T L. F00001700	PSA	240	Professional Artist Seminar	
		Jewelry/Metals Track - 500201702			SubTotal	45
		(Offered at HZC)			Total Condita	(2 (7
ART	110	Drawing I			Total Credits	63-67
ART	120	2-Dimensional Design			Dinlomas	
ART	130	3-Dimensional Design			Diplomas	
BAS	200	Small Business Management			W 10, I' T 1 ' ' F000044040	
ACT	101	Fundamentals of Accounting I			Wood Studio Technician - 5002014019	
PSJ PSJ	110 115	Jewelry/Metals I         3           Jewelry/Metals II         3			(Offered at HZC)	
PSJ	116	Ancient Techniques	ENG	101	Writing I	3
PSJ	117	Metal Casting / Finishing Techniques	MAT	110	Applied Mathematics OR	
PSJ	210	Jewelry/Metals III			Any higher level Quantitative Reasoning course	
PSJ	211	Hollowware and Metal Forming			Subtotal	6
PSJ	212	Metallurgy of Precious Metals2	Task	nical /6	Support Courses	
PSJ	215	Jewelry/Metals IV3	CIS		Support Courses Introduction to Computers OR	0.3
PSJ	216	Stone Setting	C13	100	Introduction to Computers OR	ט-ว
PSJ	220	Jewelry/Metals Product Development	ART	110	Drawing I	3
PSA	240	Professional Artist Seminar	ART	130	3-Dimensional Design	
		Sub Total 45				
		545 10441	BAS	200	Small Business Management	3
		Total Credits 63-64	BAS PSW	111	Small Business Management	
PSJ	230					3

PSW	117	Wood Turning for Furniture			Ceramics Studio Technician - 5002014049	
PSW	211	Wood Bending and Veneering			(Offered at HZC)	
PSW	215	Furniture Making IV	ENG	101	Writing I	3
PSW	220	Furniture/Wood Product Development	MAT	110	Applied Mathematics OR	
		Subtotal 28-31			Any higher level Quantitative Reasoning course	
		Total Credits 34-37			Subtotal	6
		lewelry/Metals Technician 5002014020	Tech	nical/	Support Courses	
		Jewelry/Metals Technician - 5002014029	CIS	100	Introduction to Computers OR	0-3
		(Offered at HZC)			Computer competency by exam	
ENG	101	Writing I	ART	110	Drawing I	
MAT	110	Applied Math OR	ART	130	3-Dimensional Design	
		Any higher level math	BAS	200	Small Business Management	
		Subtotal 6	PSC PSC	112 115	Ceremics I	
Techr	nical/S	Support Courses	PSC	117	Ceramics II	
CIS	100	Introduction to computers OR 0-3	PSC	210	Ceramics III	
CIO	100	Computer competency by exam	PSC	211	Kiln Operation and Design	
ART	110	Drawing I	PSC	212	Ceramic Production Techniques	
ART	130	3-Dimensional Design	PSC	215	Advanced Ceramics IV	
BAS	200	Small Business Management			Subtotal	30-33
PSJ	110	Jewelry/Metals I3				
PSJ	115	Jewelry/Metals II			Total Credits	36-39
PSJ	117	Metal Casting / Finishing Techniques			0 1'' 1	
PSJ	210	Jewelry/Metals III			Certificates	
PSJ	211	Hollowware and Metal Forming 3				
PSJ	212	Metallurgy of Precious Metals			Furniture Making Fundamentals - 5002013029	
PSJ	215	Jewelry/Metals IV			(Offered at HZC)	
PSJ	216	Stone Setting	ART	110	Drawing I	
		Subtotal 31-34	PSW	111	Introduction to Furniture Making	
		Total Credits 37-40	PSW	115	Furniture Making II	
			PSW	116	Wood Finishing	
	DI	ugarace & Traditional Studio Artist 5002014020	PSW	211	Wood Bending and Veneering	3
	וט	uegrass & Traditional Studio Artist - 5002014039 (Offered at HZC)			Total Credits	14
ENG	101	Writing I			W I = 1. A. II = 0.00040000	
MAT	110	Applied Math OR3			Wood Furniture Studio - 5002013059	
		Any higher level Quantitative Reasoning(3)			(Offered at HZC)	
COM	181	Basic Public Speaking	PSW	111	Introduction to Furniture Making	3
		Subtotal 9	PSW	115	Furniture Making II	3
			PSW	116	Wood Finishing	2
Supp	ort Co		PSW	117	Wood Turning for Furniture	
BAS	200	Small Business Management	PSW	211	Wood Bending and Veneering	
MKT	282	Principles of Marketing			Total Credits	14
HUM		Survey of Appalachian Studies I				
MUS	174	Theory for Non-Music Majors			Jewelry/Metals Fundamentals - 5002013019	
		Subtotal 12			(Offered at HZC)	
Techr	nical C	ourses	ART	110	Drawing I	
CIS	100	Introduction to computers OR 0-3	ART	120	2-Dimensional Design	
010	100	Computer competency by exam	PSJ	110	Jewelry/Metals I	
PSM	101	Bluegrass & Traditional Music History I	PSJ	115	Jewelry/Metals II	
PSM	113	Guitar I OR 0-1	PSJ	210	Jewelry/Metals III	3
		Competency by audition			Total Credits	15
PSM	105	Recording I				
PSM	107	Songwriting I			Jewelry Studio - 5002013069	
PSM	112	Individual String Instrument Instruction x4			•	
PSM	114	Bluegrass & Traditional Band/Ensemble x4	DCI	110	(Offered at HZC)	2
PSM	241	Bluegrass & Traditional Music IV (elective) 0-3	PSJ	110	Jewelry/Metals I	
PSM	250	Field Experience/Production/Business (elective) 0-3	PSJ	115	Jewelry/Metals II	
		Subtotal 17-27	PSJ	116 117	Ancient Techniques	
		Total Credits 38-48	PSJ PSJ	211	Hollowware and Metal Forming	
			PSJ	212	Metallurgy of Precious Metals	
			- ~J		Total Credits	16

#### Bluegrass & Traditional Music Fundamentals - 5002013039 (Offered at HZC) 200 BAS 282 Principles of Marketing.....(3) MKT **Technical Courses PSM** 101 PSM 105 **PSM** 107 PSM 112 **PSM** 113 Guitar I OR...... 0-1 Competency by audition PSM 114 Bluegrass & Traditional Band/Ensemble x2 ...... 4 **Total Credits** Ceramics Fundamentals - 5002013049 (Offered at HZC) ART 110 ART 120 PSC 112 PSC 115 PSC 117

### Ceramics Studio -5002013079

**PSC** 

211

Subtotal

	(Offered at HZC)				
PSC	112	Ceramics I	3		
PSC	115	Ceramics II	3		
PSC	117	Glaze Calculations	3		
PSC	211	Kiln Operation and Design	3		
PSC	212	Ceramics Production Techniques	3		
		Subtotal	15		

### **Project Lead the Way**

Project Lead the Way complements traditional college-preparatory academic studies with challenging career/technical studies, providing students with hands-on exposure to real-life engineering challenges.

### Certificate

### Engineering Related – PLTW – 1515993019

		(Offered at OWC, MDC, SEC)	
PLW	100	Introduction to Engineering Design	4
PLW	125	Principles of Engineering	
PLW	150	Digital Electronics	4
PLW	200	Aerospace Engineering or	4
PLW	225	Civil Engineering and Architecture or	
PLW	250	Computer Integrated Manufacturing	
PLW	295	Engineering Design and Development	4
		Total Credits	20

### **Quality Management Systems**

The Quality Management Systems program prepares students to analyze and implement systems for continuous improvement of functions and processes for the manufacturing, government, and service sectors. Students are taught to analyze and solve quality problems, prepare inspection plans and instructions, and select sampling plan applications. Emphasis is placed on learning the tools and techniques for controlling processes, improving process reliability, improving efficiencies, and

eliminating defects. Upon completion of the program, graduates are qualified for employment in entry-level managerial or supervisory positions. Course work uses and reflects the body of knowledge found in professional quality certifications such as offered by the American Society for Quality.

### Associate in Applied Science

### Quality Management Systems - 1507027019

(Offered at ELC) Available Completely Online

Gene	ral Edu	ıcation	
ENG	101	Writing I	3
ENG	102	Writing II	3
ENG	203	Business Writing OR	
ENG	204	Technical Writing	(3)
COM	181	Basic Public Speaking	3
MA	109	College Algebra OR	3
MAT	150	College Algebra	(3)
		Social/Behavioral Sciences Course	3
		Heritage/Humanities course	3
		Natural Sciences Course	3
		Elective	3
		Subtotal	27 hrs.

#### Technical Core 18 -21 hrs.

		Subtotal	18-21 hrs.
QMS	242	Statistics for Quality II	3
QMS	240	Statistics for Quality I	3
QMS	220	Quality Audits	3
QMS	202	Performance Management	3
QMS	201	Customer Service Improvement Skills	3
QMS	101	Introduction to Quality Systems	3
		Computer/Digital Literacy	0-3

Techi	Technical Support Courses—15 -17 hrs.			
QMS	210	Lean Processes		
QMS	212	Project Management		
QMS	251	Strategic Quality Planning		
QMS	262	Design of Experiments4		
QMS	299	Topics in Quality Management Systems: (Topic) 1-6		
BAS	212	Introduction to Financial Management		
BRX	120	Basic Blue Print reading		
CAD	100	Introduction to Computer-Aided Design		
CAD	150	Introduction to Programming4		
CAD	200	Intermediate Computer-Aided Design4		
CAD	201	Advanced Computer-Aided Design		
COE	199	Cooperative Education		
ECO	101	Contemporary Economic Issues		
ELT	110	Circuits I5		
ELT	114	Circuits II5		
ENV	110	Introduction to Environmental Technology4		
ELT	102	Blue Print Reading		
ELT	261	Instrumentation and Measurement		
ISX	101	Introduction to Industrial Safety		
IS	201	Occupational Health and Industrial Hygiene Methods4		
ISX	100	Industrial Safety		
ME	105	Basic Engineering Graphics		
MFG	145	Manufacturing Process		
MFG	256	Production Management		
MFG	265	Robotics Fundamentals		
		Total 60 - 65		

# Diploma

### Quality Specialist I - 1507023089

(Offered at ELC)

A 11. W 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				(Offered at ELC)			
Quality Technician - 1507024029					Available Completely Online		
(Offered at ELC, HPC)				101	Introduction to Quality Systems	3	
		$\omega$	QMS	220	Quality Audits	3	
		lucation	QMS	240	Statistics for Quality I		
ENG	101	Writing I	QMS	242	Statistics for Quality II		
MAT	150	College Algebra			Total	12	
		Subtotal 6					
Techi	nical (	Component			Quality Specialist II - 1507023099		
		Computer/Digital Literacy			(Offered at ELC)		
BRX	120	Basic Blue Print Reading	QMS	220	Quality Audits	3	
QMS	101	Introduction to Quality Systems	QMS	240	Statistics for Quality I		
QMS	201	Customer Service Improvement Skills	QMS	242	Statistics for Quality II		
QMS	202	Performance Management	QMS	262	Design of Experiments		
QMS	220	Quality Audits3	QIVIS	202	Total	13	
QMS	240	Statistics for Quality I			10001	13	
QMS	242	Statistics for Quality II			4 11 1 11 11 11 11 11 11 11 11 11 11 11		
		Subtotal 28-31			Quality Auditor - 1507023109		
T 1 ·	1.0	C AACL:			(Offered at ELC)		
lechni	cal Cot	rrse form AAS List	ENG	101	Writing I	3	
		Total 34-37	ENG	102	Writing II	3	
		0 1'' 1	ENG	203	Business Writing OR	3	
		<i>Certificates</i>	ENG	204	Technical Writing	(3)	
			QMS	201	Customer Service Improvement Skills		
		Lean Manufacturing Facilitator – 1507023119	QMS	220	Quality Audits		
QMS	101	Introduction to Quality Systems			Total	15	
QMS	210	Lean Processes					
	220						
QMS	220	Quality Audits			Radiography		
		Computer/Digital Literacy			naulugi apily		
		Total Credits 9-12					
			This p	orogram	prepares the individual to become a radiographer.	The	
		Quality Support - 1507023059	radiog	grapher	is prepared to administer ionizing radiation for med	lical di-	
		(Offered at ELC)	agnos	tic imag	ring purposes. Emphasis is on radiation protection	and qual-	
		$\omega$			re. The curriculum is comprised of specialized cour		
3.6.4	400	Available Completely Online	, ,		with concentrated study in the basic sciences, mathe		

radiography with concentrated study in the basic sciences, mathematics and general education. Students enrolled in the Radiography program must achieve a minimum grade of "C" in each Radiography course. Upon completion of the program, the graduate is eligible to apply to write the examination for registration as a radiographer by the American Registry of Radiologic Technologists. Radiographers may find positions in hospitals, health clinics, and physicians' offices. Research laboratories and some industrial firms may also employ radiographers. The curriculum requires attendance in the summer session, fall and spring semesters. Note: CPR certificate must be obtained prior to enrolling in IMG 100 or IMG 104, IMG 106 and IMG 108 and certification must be kept current throughout the program. Note: Documentation of computer literacy as defined by KCTCS is required prior to admission to IMG courses.

Advanced Imaging in Radiography focuses on the areas of Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) in the Radiological Sciences. Didactic instruction prepares the technologist to work in the areas of CT and MRI in the healthcare setting and to sit for the Advanced Board Exams given by the American Registry of Radiologic Technologists. These courses are offered for technologists who are currently registered by the American Registry of Radiologic Technologists in Radiography or the Nuclear Medicine Technology Certification Board in Nuclear Medicine, or students who have completed one year and are currently enrolled in an accredited radiography or nuclear medicine program, or by consent of the instructor. The core curriculum courses are intended to provide the student with an overall knowledge of advanced patient care and sectional anatomy. The CT and MRI tracks focus on the physics, instrumentation and imaging techniques of these modalities. The student may choose CT or MRI or both. Although these courses are

**Quality Monitor - 1507023069** 

(Offered at ELC, HPC)

Available Completely Online

College Algebra .....(3)

MA

MAT

OMS

QMS

QMS

ENG

MA

109

150

101

240

242

101

organized in a hierarchical pattern, depending on the entry-level knowledge and the needs of the student, they may be taken out of sequence with consent of the instructor.

Note: Hours Exception (71-75 for the A.A.S. and 56-62 for the Diploma) approved by the KCTCS Board of Regents in June 2010.

### Associate in Applied Science

### Radiography - 5109077029

(Offered at ASC, BLC, ELC, HZC, JFC, MDC, OWC, SEC, SKY, SMC, WKC)

.....3

25-27

General Education:				
		Social/Behavioral Sciences		
		Heritage/Humanities		
		Oral Communications		
ENG	101	Writing I		
MAT	150	College Algebra OR		

Subtotal

MAT	150	College Algebra OR	3
		Higher Level Quantitative Reasoning Course(3	3)
BIO	137	Human Anatomy & Physiology I	4
BIO	139	Human Anatomy & Physiology II	4
PHY	172	Physics for Health Sciences OR	2
PHY	152	Introduction to Physics OR(3	3)
PHY	171	Applied Physics(4	+)

Supp	Support Course:				
CLA	131	Medical Terminology from Greek & Latin OR	3		
AHS	115	Medical Terminology	(3)		
		Subtotal	3		

### Pathway 1 – 510907701

(Offered at HZC)

### **Technical Courses:**

IMG	100	Radiography I	7
IMG	101	Clinical I	4
IMG	110	Radiography II	7
IMG	111	Clinical II	4
IMG	201	Clinical III	3
IMG	210	Radiography IV	4
IMG	211	Clinical IV	6
IMG	220	Radiography V	4
IMG	221	Clinical V	6
		Subtotal	45
		<b>Total Credits Pathway 1</b>	73-75

### Pathway 2 – 510907702

(Offered at ASC, BLC, ELC, JFC, MDC, OWC, SEC, SKY, SMC, WKC)

#### **Technical Courses:**

IMG	104	Introduction to Radiography	2
IMG	106	Patient Care in Radiography*	2
IMG	108	Radiographic Procedures I	4
IMG	109	Clinical Practice I	1
IMG	114	Image Production and Acquisition	2
IMG	116	Advanced Patient Care in Radiography	2
IMG	118	Radiographic Procedures II	
IMG	119	Clinical Practice II	
IMG	209	Clinical Practice III	3
IMG	214	Imaging Equipment	2
IMG	216	Basic Computed Tomography	1
IMG	219	Clinical Practice IV	6
IMG	224	Radiation Protection & Biology	2
IMG	226	Radiography Pathology	
IMG	228	Radiography Seminar	2
IMG	229	Clinical Practice V	
		Subtotal	43
		<b>Total Credits Pathway 2</b>	71-73

\*NAA 100 may be substituted for IMG 106.

### Certificate

### Advanced Imaging in Radiography- 5109073029

### Core

		0010	
IMG	230	Sectional Anatomy for Advanced Imaging	3
IMG	240	Pathology for Advanced Medical Imaging Modalities	
		Subtotal	6
			Ü
		Computed Tomography Track – 510907301	
		(Offered at HZC, OWC, SEC, SMC)	
IMG	250	Computed Tomography Physics and Instrumentation .	3
IMG	260	Computed Tomography Imaging Procedures	
		Subtotal	6
		Total Credits	12
		4 '' D   ' T   54007000	
	N	Magnetic Resonance Imaging Track – 510907302	
		(Offered at HZC, OWC, SEC SMC)	
IMG	255	Magnetic Resonance Physics and Instrumentation	3
IMG	265	Magnetic Resonance Imaging Technology	3
		Subtotal	6
		m + 1 G - 12	4.2
		Total Credits	12

### **Real Estate**

This program has several purposes: (1) to prepare the student for entry into the real estate field; (2) to provide continuing education for the individual already licensed in real estate; (3) to provide an educational opportunity for persons wanting to fulfill professional or general interest needs; and (4) to provide a foundation for those planning to pursue the specialized fields of appraising, property management, commercial and industrial site selection, consulting, and urban and land use planning.

The curriculum covers such areas as real estate principles and practices, appraisal, finance, marketing, management, construction, and blueprints. Additional courses in real estate, business, and general education complete the program.

Individuals who complete the program may enter public or private employment in such real estate areas as sales, finance, development, management valuation, and market analysis. With experience, the individual may opt for positions in appraising, consulting, brokerage, and property management.

The Real Estate Program also offers two Real Estate Certificate programs: the Real Estate Pre-Licensing Certificate requiring 6 hours and the Residential Real Estate Certificate requiring 12 hours. The Real Estate Pre-Licensing Certificate provides the information students need to prepare for the Real Estate License exam. The Residential Real Estate Certificate provides students the information needed to enhance their abilities as residential real estate agents.

### Associate in Applied Science

### Real Estate - 5215017000

(Offered at JFC)

#### **General Education**

ENG	101	Writing I
ENG		Writing II
		Heritage/Humanities
		Quantitative Reasoning
		Oral Communications

		Natural Sciences
		Social/Behavioral Sciences 3-4
		Elective(s)1-3
		Economics
		Subtotal 25-28
Prog	ram Re	equirements
Č		Computer/Digital Literacy
REA	100	Real Estate Principles I
REA	120	Real Estate Marketing
REA	121	Appraising
REA	122	Construction & Blueprints OR
ACH	100	Construction Documents(3)
REA	201 202	Property Management
REA REA	202	Real Estate Investments 1       3         Real Estate Brokerage Management       3
REA	225	Real Estate Finance
REA	230	Real Estate Law
ACC	201	Financial Accounting I OR
\CT	101	Fundamentals of Accounting I(3)
BAS	267	Introduction to Business Law
		Technical Course
		Subtotal 37-39
Tech:	nical C	ourses (Choose one of the following)
CIS	130	Microcomputer Applications
REA	203	Commercial & Industrial Property
REA	204	Land Planning & Development
REA	205	Farm Brokerage
REA	212	Real Estate Investment II
REA	299	Selected Topics in Real Estate1-3
REA	221	Basic Income Approach to Property Valuation
REA	222	Uniform Standards of Professional Appraisal Practice 1
		Total Credits 62-67
		Certificates
		Deal Estate Dre Licensing 5215012020
		Real Estate Pre-Licensing - 5215013029
		(Offered at BLC, ELC, JFC, MYC)
REA	100	Real Estate Principles I
		Subtotal 3
hoo	se one	from the following (3 credits)
REA	120	Real Estate Marketing
REA	200	Real Estate Principles II
REA	225	Real Estate Finance
REA	230	Real Estate Law
		Subtotal 3
		m . 1 a . 10
		Total Credits 6
		iotal cieuts 0
		Residential Real Estate - 5215013019
DE A	100	Residential Real Estate - 5215013019 (Offered at ELC, JFC)
	100	Residential Real Estate - 5215013019  (Offered at ELC, JFC)  Real Estate Principles I
REA REA	100 120	Residential Real Estate - 5215013019 (Offered at ELC, JFC)
REA	120	Residential Real Estate - 5215013019  (Offered at ELC, JFC)  Real Estate Principles I
REA C <b>hoo</b>	120 ose two	Residential Real Estate - 5215013019  (Offered at ELC, JFC)  Real Estate Principles I
REA C <b>hoo</b> REA	120 ose two 121	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         from the following (6 credit hours)         Appraising       3
REA C <b>hoo</b> REA REA	120 ese two 121 122	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         from the following (6 credit hours)         Appraising       3         Construction and Blueprints       3
REA C <b>hoo</b> REA REA REA	120 ese two 121 122 200	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         From the following (6 credit hours)         Appraising       3         Construction and Blueprints       3         Real Estate Principles II       3
REA C <b>hoo</b> REA REA REA REA	120 <b>9se two</b> 121 122 200 201	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         From the following (6 credit hours)         Appraising       3         Construction and Blueprints       3         Real Estate Principles II       3         Property Management       3
Choo REA REA REA REA REA	120 se two 121 122 200 201 225	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         From the following (6 credit hours)         Appraising       3         Construction and Blueprints       3         Real Estate Principles II       3         Property Management       3         Real Estate Finance       3
Choo REA REA REA REA REA	120 <b>9se two</b> 121 122 200 201	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         From the following (6 credit hours)         Appraising       3         Construction and Blueprints       3         Real Estate Principles II       3         Property Management       3
REA	120 se two 121 122 200 201 225	Residential Real Estate - 5215013019         (Offered at ELC, JFC)         Real Estate Principles I       3         Real Estate Marketing       3         Subtotal       6         From the following (6 credit hours)         Appraising       3         Construction and Blueprints       3         Real Estate Principles II       3         Property Management       3         Real Estate Finance       3         Real Estate Law       3

### **Respiratory Care**

The Respiratory Care program prepares the graduate to take an active role in the maintenance and/or restoration of cardiopulmonary homeostasis. The curriculum includes intensive course work in the supporting sciences and general education areas. Classroom instruction is supplemented with learning experiences in the campus laboratory and in area clinical affiliates. Students enrolled in the Respiratory Care program are required to achieve a minimum grade of "C" in each Respiratory Care course.

Although hospitals employ the majority of respiratory therapists, other employers include home care providers, medical clinics, nursing homes, and industry. Graduates are qualified to take the National Board for Respiratory Care examination in order to receive the Certified Respiratory Therapist (C.R.T.) credential. Graduates who successfully completed the CRT examination may additionally write the advanced practice examinations and receive the Registered Respiratory Therapist (RRT) credential.

\*Note: The Kentucky Board for Respiratory Care may deny mandatory certification for convicted felons. Questions should be directed to the Kentucky Board for Respiratory

\* Note: Computer/Digital literacy must be documented by competency exam or by completing a computer/digital literacy course.

Note: Hours Exception (67-70 for the A.A.S) approved by the KCTCS Board of Regents in June 2010.

### Associate in Applied Science

Advanced Practice Respiratory Therapist - 5109087049

(0	offered at A	SC, BLC, BSC, ELC, JFC, MDC, MYC, SEC, SKY, SMC,WKC)
BIO	137	Human Anatomy & Physiology I*4
BIO	139	Human Anatomy & Physiology II*4
MAT	150	College Algebra* OR
MAT	110	Applied Mathematics* OR(3)
MAT	146	Contemporary College Mathematics*(3)
		Oral Communications*
		Social/Behavioral Sciences *
ENG	101	Writing I *
		Heritage/Humanities*
		General Education Total 23
		ed Additional Course(s)
ENG	102	Writing II(3)
BIO	226	Principles of Microbiology OR(3)
BIO	225	Medical Microbiology(4)
Techr	nical Co	urses
RCP	110	Cardiopulmonary Anatomy & Physiology 3
RCP	120	Theory & Principles of Respiratory Care OR4
RCP	122	Fundamentals of Respiratory Care**(4)
RCP	125	Cardiopulmonary Evaluation OR4
RCP	140	Cardiopulmonary Assessment**(2)
RCP	130	Pharmacology
RCP	150	Clinical Practice I OR
RCP	121	Respiratory Care Practice I **(1)
RCP	175	Clinical Practice II OR
RCP	176	Respiratory Care Practice II **(2)
RCP	180	Ventilatory Support AND
RCP	190	Advanced Ventilitory Support OR
RCP	185	Introduction to Mechanical Ventilation** AND(2)
RCP	195	Patient-Ventilator System Management**(4)
RCP	200	Clinical Practices III OR
RCP	201	Respiratory Care Practice III**(2)
RCP	204	Emergency and Special Procedures AND
RCP	214	Advanced Diagnostic Procedures OR
RCP	240	Advanced Cardiopulmonary Evaluation** AND(3)
RCP	245	Advanced Cardiac Life Support**(2)

RCP	210	Cardiopulmonary Pathophysiology	3
RCP	212	Neonatal/Pediatric Respiratory Care	3
RCP	225	Clinical Practice IV OR	
RCP	226	Respiratory Care Clinical Practice IV**	(4)
RCP	228	Preventive and Long Term Respiratory Care	2
RCP	250	Clinical Practice V OR	3
RCP	251	Respiratory Care Practice V**	(4)
		Elective (BCTC requires RCP 260)	0-1
		Technical Course Credit Total	
		Technical Course Credit Total**	45
		Total Credits	68-70

<sup>\*</sup>General Education Course

137

BIO

#### **Certificates**

Human Anatomy & Physiology I\*.....4

BIO	139	Human Anatomy & Physiology II*4
ENG	101	Writing I
MAT	150	College Algebra* OR
MAT	146	Contemporary College Mathematics* OR(3)
MAT	110	Applied Mathematics*(3)
AHS	115	Medical Terminology
		Subtotal 17
Table	nical Co	*****
recni	iicai Co	urses
PSG	100	Introduction to Polysomnography
PSG	100	Introduction to Polysomnography
PSG PSG	100 110	Introduction to Polysomnography
PSG PSG PSG	100 110 111	Introduction to Polysomnography
PSG PSG PSG PSG	100 110 111 115	Introduction to Polysomnography       2         Polysomnography Level I       3         Polysomnography Lab I       1         Polysomnography Practice I       3
PSG PSG PSG PSG PSG	100 110 111 115 130	Introduction to Polysomnography2Polysomnography Level I3Polysomnography Lab I1Polysomnography Practice I3Polysomnography Level II3

<sup>\*</sup>General Education Course

Subtotal

**Total Credits** 

### Electrocardiographic and Cardiac Monitoring Technician - 5109083049 (Offered at BLC, BSC, ELC, JFC, SKY, WKC)

36

BIO	137	Human Anatomy & Physiology I*	4
BIO	139	Human Anatomy & Physiology II*	4
MAT	150	College Algebra* OR	3
MAT	146	Contemporary College Mathematics* OR	(3)
MAT	110	Applied Mathematics*	(3)
Tech	nical (	Courses	
RCP	110	Cardiopulmonary Anatomy & Physiology	3
RCP	125	Cardiopulmonary Evaluation OR	4
RCP	140	Cardiopulmonary Assessment #	(2)
RCP	150	Clinical Practice I ** OR	2
RCP	121	Respiratory Care Practice I # **	(I)
		Total Credits	17-20

<sup>\*</sup> General Education Course

### **Security Management**

The Security Management Coordinator program provides a comprehensive overview of physical security policies, procedures and techniques. Topics covered are perimeter protection, intrusion detection, access control, CCTV, locks and locking devices, lighting, security design and

surveys, contingency planning, and acts of violence. Instruction in all types of security hardware: electronic and mechanical door locks, access control systems and their devices, as well as intrusion detection systems and cameras, safes and safe hardware is available.

The Supply Chain Security program provides an overview of the needs and requirements for a safe, secure supply chain. The program looks at threats, and offers solutions. The House Select Committee on Homeland Security issued a comprehensive assessment (February 2004) on the United State's levels of preparation against terrorist activity. The Committee concluded in part "Pathways to the United States by land, sea and air are insecure." Security throughout transportation, storage, shipping and receiving of cargo is addressed in this program. The concept of proactive verses reactive, planning and the overall needs of a security operation are discussed. Specific security systems are discussed, as well as the creation and implementation of security policies. Basic security equipment and procedures, including perimeter protection, intrusion detection, security surveys and CCTV systems are covered, as well as management issues to include terrorism, crisis management and basic guard force management. A Security Design section of the program looks at ways to maximize the security benefit within operational (financial and aesthetic) constraints.

The Antiterrorism Physical Security Specialist program provides a comprehensive overview of a physical security program. Topics covered are access control systems; intrusion detection, both interior and exterior; crisis management; national incident management systems; contracting guard forces; international and domestic terrorism and their threat to America; security surveys/security audits; managing a security operation; IT security; CCTV; contingency planning; locks and locking devices; workplace violence; and perimeter security.

The Safe & Lock Technician program provides a comprehensive hands-on knowledge of safes and locks. This program will provide the technician with the training to service, maintain and troubleshoot safes and locks. Topics covered are electronic access control systems, safe lock servicing — electronic and mechanical, combination lock manipulation, basic safe penetration, locks and locking devices, safe and safe hardware, security hardware, electronic and mechanical door locks.

For all programs: Students will be required to undergo a criminal background investigation. If a student is presently employed by a law enforcement or federal agency that requires criminal checks, this requirement may be waived by LSI.

### **Certificates**

### Security Management Coordinator - 4301123010

 (Offered at BLC)

 LSI
 120
 Comprehensive Security Specialist
 4

 LSI
 140
 Managing Terrorism & Other Crises
 1

 LSI
 150
 Professional Locksmithing
 4

 Electives
 3

### Electives: A minimum of 3 credit hours must be taken from this list of electives:

**Total Credits** 

LSI	100	Fundamental Principles of Physical Security
LSI	105	Force Protection
LSI	110	Security Surveys
LSI	115	Command Security Officer Training4
LSI	130	GSA: Locks, Vaults & Containers
LSI	131	GSA: Locks, Vaults & Containers Certified
		Inspector Training
LSI	151	Basic Safe Penetration
LSI	152	Combination Lock Manipulation 1
LSI	153	Safe Lock Servicing - Mechanical and Electronic 2
LSI	160	Fundamentals of Electricity

<sup>\*\*</sup>RCP courses currently only offered and required at BCTC for degree completion at that college.

<sup>\*\*</sup> In addition Twenty (20) hours of documented clinical Electrocardiographic experience or documented Electrocardiographic & Cardiac Monitoring Competence is required.

<sup>#</sup> RCP courses currently only offered and required at BCTC to complete certificate.

LSI	170	Electronic Access Control	2
LSI	180	Security and Crime Prevention Management	1
LSI	185	Security and Crime Prevention Countermeasures	1
LSI	190	Security Hardware & Bypass Techniques	1
LSI	195	Tactical Lock (restricted enrollment)	8
		Safe & Lock Technician - 4301123040 (Offered at BLC)	
LSI	150	Professional Industrial Locksmithing	4
LSI	153	Safe Lock Servicing	
		Electives	10
		Total Credits	16

#### Electives: A minimum of 10 credit hours must be taken from this list of electives.

LSI	110	Security Surveys
LSI	130	GSA: Lock, Vault & Container
LSI	151	Basic Safe Penetration
LSI	152	Combination Lock Manipulation
LSI	160	Fundamentals of Electricity
LSI	170	Electronic Access Control
LSI	182	Managing Security Operations

### **Surgical First Assisting**

The Surgical First Assistant provides aid in exposure, hemostasis, and other technical functions that will help the surgeon carry out a safe operation with optimal results for the patient. This role will vary considerably with the surgical operation, specialty area, and type of facility. Clinical skills performed under direct supervision of the surgeon include the following: positioning the patient, preparing the skin, providing visualization of the operative site, utilizing appropriate techniques to assist with hemostasis, participating in volume replacement or auto transfusion techniques as appropriate, utilizing appropriate techniques in the closure of body planes, selecting and applying appropriate wound dressings and providing assistance in securing drainage system to tissue.

This program provides clinical experience built upon classroom instruction in the basic sciences, patient care, aseptic techniques and surgical procedures. Students enrolled in the Surgical First Assistant Program are required to achieve a minimum grade of "C" in each Surgical First Assistant course. Graduates from the program are eligible to take the certifying exams offered by the National Surgical Assistant Association (CSA) or the National Board of Surgical Technologists and Surgical Assistants (CSFA).

### Associate in Applied Science

### Surgical First Assisting - 5109097039

(Offered at MDC)

BIO	135	Basic Anatomy and Physiology with Laboratory	4
ENG	101	Writing I	3
		Heritage/Humanities	
MAT	150	College Algebra OR	3
MAT	110	Applied Mathematics	
		Social/Behavioral Sciences course	3
		Subtotal	16
Took	nical C	OTHERE	

#### Technical Courses:

		Computer/Digital Literacy	0-3
SUR	109	Introduction to Surgical Technology	3
SUR	110	Surgical Technology Fundamentals	9
SUR	101	Surgical Technology Fundamentals/Lab	1
SUR	125	Surgical Technology Skills Practicum I	2
SUR	130	Principles of Surgical Pharmacology	
SUR	200	Surgical Technology Advanced Theory	9
SUR	201	Surgical Technology Skills Practicum II	
SUR	275	Surgical Technology Advanced Clinical Practicum	2
		Ç	

		Total Credit Hours	65-68
		Subtotal	49-52
SUR	296	Surgical First Assistant Practicum	3
SUR	295	Surgical First Assistant Clinical	1
SUR	284	Principles of Surgical Assisting	3
SUR	282	Perioperative Bioscience	3
SUR	280	Surgical Anatomy	5

For program admission, student must be a certified Surgical Technologist or an RN with operating room experience OR consent of instructor.

For program admission, CPR or BLS certificate must be obtained prior to enrolling in the course; certification must be kept current throughout the program.

NOTE: BIO 137 & BIO 139 may be substituted for BIO 135.

### Certificate

### Surgical First Assisting - 5109093020

(Offered at MDC)

SUR	280	Surgical Anatomy 5	,
SUR	282	Perioperative Bioscience	
SUR	284	Principles of Surgical Assisting	b
SUR	295	Surgical First Assistant Clinical	l
SUR	296	Surgical First Assistant Practicum	b
		Total Credit Hours 15	;

CPR or BLS certificate must also be obtained prior to enrolling in the program; certification must be kept current throughout the program.

For program admission, student must be a certified Surgical Technologist or an RN with operating room experience. Student must provide current documentation of certificate/

### **Surgical Technology**

Surgical technologists are allied health professionals who are an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings such as medical offices, out-patient clinics, and the operating room.

The surgical technologist works under medical supervision to facilitate the safe and effective conduct of invasive surgical procedures. This individual works under the supervision of a surgeon to ensure that the operating room environment is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety.

A surgical technologist possesses expertise in the theory and application of sterile and aseptic techniques and combines the knowledge of human anatomy, surgical procedures, and implementation tools and technologies to facilitate a physician's performance of invasive therapeutic and diagnostic procedures.

This program provides clinical experience built upon classroom instruction in the basic sciences, patient care, aseptic techniques and surgical procedures. Students enrolled in the Surgical Technology Program are required to achieve a minimum grade of "C" in each course required for the credential. Students who withdraw from or earn less than a "C" in any course with a Surgical Technology prefix will be dropped from the Surgical Technology program and must reapply for admission. CPR (for Healthcare Professionals) requirements must be successfully completed prior to enrolling in the first surgical technology course and must be kept current throughout the program.

Students who have completed program requirements must sit for the certifying examination offered by the National Board on Certification for Surgical Technology and Surgical Assisting (NBSTSA), 6 West Dry Creek Circle, Suite 100; Littleton, CO 80120; Phone: (800) 707 0057; www. nbstsa.org.

45-59

The following programs hold accreditation from the Commission on Accreditation of Allied Health Education Programs (CAAHEP) 1361 Park Street, Clearwater Florida 33756; (727) 210 2350; www.caahep. org who accredits programs upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA), 6 West Dry Creek Circle, Suite 110; Littleton, CO 80120; Phone: (303) 694 9262; www.arcst.org.: Ashland Community and Technical College Bluegrass Community and Technical College, Hazard Community and Technical College, Jefferson Community and Technical College, Southcentral Kentucky Community and Technical College, Southcentral Kentucky Community and Technical College, and West Kentucky Community and Technical College.

### Associate in Applied Science

### Surgical Technology - 5109097019

(Offered at BLC, BSC, HZC, JFC, MDC, OWC, SKY, SMC, WKC)

Gene	rai Educ	cation:	
BIO	137	Human Anatomy & Physiology I AND	4
BIO	139	Human Anatomy & Physiology II	4
MAT	110	Applied Mathematics OR	3
MAT	150	College Algebra OR	(3)
		Higher level Quantitative Reasoning Course	(3)
ENG	101	Writing I	3
		Social/Behavioral Sciences	3
		Heritage/Humanities	3
		Subtotal	20

#### **Technical Courses:**

		Digital Literacy 0-3
CLA	131	Medical Terminology from Greek & Latin OR
AHS	115	Medical Terminology OR(3)
MIT	103	Medical Office Terminology(3)
SUR	100	Surgical Technology Fundamentals/Theory OR
SUR	109	Introduction to Surgical Technology AND(3)
SUR	110	Surgical Technology Fundamentals(9)
BIO	225	Medical Microbiology OR4
BIO	226	Principles of Microbiology OR(3)
BIO	227	Principles of Microbiology with Laboratory OR(5)
BIO	118	Microbes and Society(3)
SUR	101	Surgical Technology Fundamentals Lab
SUR	130	Principles of Surgical Pharmacology
SUR	200	Surgical Technology Advanced Theory
A total	of 10 cree	dit hours must be completed from the following practicum
		courses:
SUR	125	Surgical Technology Skills Practicum I
SUR	201	Surgical Technology Skills Practicum II
SUR	275	Surgical Technology Advanced Clinical Practicum
		Subtotal 40-45
		Total Credits 60-65
Elect	ivo(s).	

### Elective(s):

SUR	103	Surgical Technology Didactic Practicum(1)
SUR	270	Pathophysiology for Surgical Technology OR(2)
MAI	200	Pathophysiology for Medical Assistants(3)
BAS	120	Personal Finance(3)
MNA	100	Medicaid Nurse Aide OR(3)
NAA	100	Nursing Assistant Skills I(3)
NI4		

CPR certificate must be obtained prior to enrolling in the first Surgical Technology course and certification must be kept current throughout the Program

Digital literacy must be demonstrated either by competency exam or by completing a digital literacy course.

### Diploma

### Surgical Technologist - 5109094019

(Offered at ASC, BLC, BSC, JFC, MDC, OWC, SEC, SKY, WKC)

#### **General Education:**

Area I =		
ENG 101	Writing I	3
Area 2 =		
BIO 135	Basic Anatomy & Physiology with Lab OR	4
BIO 137	Human Anatomy & Physiology I AND	(4)
BIO 139	Human Anatomy & Physiology II OR	(4)
	Subtotal	7-11

#### **Technical Courses:**

		Digital Literacy course or demonstrated competency 0-3
CLA	131	Medical Terminology from Greek & Latin OR
AHS	115	Medical Terminology OR(3)
MIT	103	Medical Office Terminology(3)
SUR	109	Introduction to Surgical Technology AND(3)
SUR	110	Surgical Technology Fundamentals OR(9)
SUR	100	Surgical Technology Fundamentals/Theory AND
BIO	225	Medical Microbiology OR4
BIO	226	Principles of Microbiology OR(3)
BIO	227	Principles of Microbiology with Laboratory OR(5)
BIO	118	Microbes and Society(3)
SUR	101	Surgical Technology Fundamentals Lab
SUR	130	Principles of Surgical Pharmacology
SUR	200	Surgical Technology Advanced Theory
WPP	200	Workplace Principles OR
BAS	250	Business Employability Seminar(1)
A total	of 10 cred	it hours must be completed from the following practicum
		courses:
SUR	125	Surgical Technology Skills Practicum I 2-3
SUR	201	Surgical Technology Skills Practicum II 6-7
SUR	275	Surgical Technology Advanced Clinical Practicum
		Subtotal 38-48

#### Flective(s

Electi	ive(s):	
SUR	103	Surgical Technology Didactic Practicum(1)
SUR	270	Pathophysiology for the Surgical Technologist OR(2)
MAI	200	Pathophysiology for the Medical Assistant(3)
EFM	100	Personal Financial Management OR(3)
BAS	120	Personal Finance(3)
MNA	100	Medicaid Nurse Aide OR(3)
NAA	100	Nursing Assistant Skills I(3)
Moto.		

**Total Credits** 

Note

 $CPR\ certificate\ must\ be\ obtained\ prior\ to\ enrolling\ in\ the\ first\ Surgical\ Technology\ course\ and\ certification\ must\ be\ kept\ current\ throughout\ the\ Program.$ 

Digital literacy must be demonstrated either by competency exam or by completing a digital literacy course.

Students successfully completing SUR 109 and SUR 110 are not required to take a microbiology course for the diploma option.

### **Certificates**

### Surgical Technology Bridge Program - 5109093019

(Offered at BSC, OWC)

STN	100	Surgical Technology Fundamentals for Nurses	7
STN	101	Surgical Technology Lab for Nurses	1
STN	102	Surgical Technology Clinical for Nurses	6
STN	110	Surgical Technology Procedures for Nursing	4
		Total Credit Hours	18

### **Surveying and Mapping Technology**

The curriculum is arranged for students to gain employment in surveying and mapping. It allows students to gain the educational requirements to sit for the licensing exams in the state of Kentucky. Classes emphasize solving problems encountered in the field of Surveying & Mapping Technology. Students perform routine topographical, boundary and other mapping / surveying projects, as well as Global Positioning (GPS) surveys. Students establish essential data, keep notes, develop preliminary sketches, and prepare working drawings, profile and section maps, volume calculations, and topographic maps. Students use computer mapping and coordinate geometry software to accomplish these tasks.

### Associate in Applied Science

<b>Surveying and Mapping</b>	Technology -	1511027029
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 (Offered at BSC)

 ENG
 101
 Writing I
 3

 Humanities
 3

 MAT
 116
 Technical Mathematics or
 3

 Higher Level Quantitative Reasoning Course
 (3)

 Natural Sciences
 3

 Social/Behavioral Sciences
 3

 Subtotal
 15

#### Required Technical Courses

Required General Education

		AASTotal	60
		Subtotal	45
		Technical Electives Approved by Program Coordinator	. 12
SMT	290	Boundary Law	3
SMT	270	Professional Ethics and Conduct for Land Surveyors	3
SMT	250	Mine Surveying	3
SMT	230	Land Boundary Location	
SMT	220	Surveying Lab	3
SMT	210	Advanced Surveying Measurement	
SMT	160	Construction Surveying	3
SMT	130	Land Surveying Graphics	3
SMT	110	Principles of Surveying	3
COM	181	Basic Public Speaking	3
•		Computer/Digital Literacy	3

### Diploma

### Surveying Technician III - 1511024019

(Offered at BSC)

requ	iii ca o	eneral Education	
ENG	101	Writing I	3
MAT	116	Technical Mathematics	
		Subtotal	6
Requ	ired Te	echnical Courses	
-		Computer/Digital Literacy	3
COM	181	Basic Public Speaking	3
SMT	110	Principles of Surveying	3
SMT	130	Land Surveying Graphics	3
SMT	160	Construction Surveying	3
SMT	210	Advanced Surveying Measurement	
SMT	220	Surveying Lab	3
SMT	230	Land Boundary Location	3
		Technical Electives Approved by Program Coordinator	9
		Subtotal	33
		DiplomaTotal	39

### Certificate

### Surveying Technician II - 1511023029

		(Offered at BSC, HZC, SEC)	
		Computer/Digital Literacy	3
SMT	110	Principles of Surveying	3
SMT	130	Land Surveying Graphics	3
		Technical Electives Approved by Program Coordinator	
		Certificate Total	12

### Surveying Technician I - 1511023019

		Surveying recinincian r - rurruzburb	
		(Offered at BSC, HZC, SEC)	
		Computer/Digital Literacy	. 3
SMT	110	Principles of Surveying, or	. 3
SMT	130	Land Surveying Graphics(	(3)
		CertificateTotal	6

### **Technical Theatre**

The technical Theatre Certificate will prepare students for an entry level position as a theatre technician and/or advanced studies in the areas of lighting, scenery, and sound.

### **Certificates**

### Technical Theatre -5005013019

(Offered at OWC)

#### **General Education Courses**

THA	101	Introduction to Theatre: Principles and Practice		
COM	181	Basic Public Speaking (OR)		
ENG	101	Writing I(3)		
Technic	al Core			
THA	150	Fundamentals of Production		
THA	250	Stage Electrics		
THA	260	Stagecraft		
THA	190	Production Practicum		
Techn	Technical Electives (Select one of the following)			
ART	113	3-Dimensional Design		
ELT	110	Circuits I5		
CAD	102	Drafting Fundamentals4		
WLD	100/101	Oxy-Fuel Systems/ with lab		
CAR		Introduction to Construction/Intro to Construction Lab 3/1		
		Total 19-21		

### **Truck Driver Training**

Prepares students to drive tractor trailer trucks, apply their knowledge of commercial driving regulations, prepare receipts for loads, maintain truck logs according to state and federal regulations, load and unload trucks, inspect trucks and their equipment. The Transportation Specialist certificate will also include the operation of basic heavy equipment in addition to the routine and minor maintenance and repairs on diesel engines.

### **Certificates**

### Tractor Trailer, CDLA I - 4902053010

		(Offered at JFC)	
TNT	110	Basic Operations	3
TNT	120	Safe Operating Practices	
TNT	210	Advanced Operating Practices	
TNT	220	Vehicle Systems and Reporting Malfunction	
TNT	250	Internship	
		Total Credits	14
		Tractor Trailer, CDLA III - 4902053039 (Offered at BSC)	
TRK	110	Driver Preparation	3
TRK	120	Trucking Safety	3
TRK	130	Instrumentation	
TRK	140	Systems Check	1
TRK	150	ĆDL Training	
TRK	160	Combined Driving	
TRK	216	Advanced Driver Preparation	
TRK	220	Advanced Trucking Safety	
TRK	230	Advanced Controls	
TRK	240	System Inspections	
TRK	250	Advanced CDL Preparation	
TRK	260	Advanced Combined Driving	
		Total Credits	24

Tractor Trailer, CDLA II - 4902053029

### **Veterinary Technology**

The Veterinary Technology program will provide students with the skills and knowledge needed to work as a professional veterinary technician. Areas of study include anatomy, physiology, microbiology, clinical techniques, office and hospital procedures, client relations and communication, pharmacology, anesthesiology, surgical and medical nursing, radiology and clinical pathology training. The Veterinary Technology program will provide students with "real world" clinical and lab experiences to develop the skills needed to become a valued professional in the field.

Note: Hours Exception (69-72 for the A.A.S.) approved by the KCTCS Board of Regents in June 2013.

### Associate in Applied Science

### Veterinary Technology - 5108087019

(Offered at OWC) General Education

ENG	101	Writing I
PHI	110	Medical Ethics
MAT	110	Technical Mathematics OR
MAT	150	College Algebra(3)
BIO	112	Introduction to Biology
BIO	113	Introduction to Biology Lab
		Social/Behavioral Sciences
COM	252	Introduction to Interpersonal Communication 3
		Subtotal 19
Requ	ired Tec	hnical Courses
1		Digital Literacy 0-3
AGR	240	
•		Digital Literacy 0-3
AGR	240	Digital Literacy
AGR AGR	240 280	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5           Veterinary Microbiology         4
AGR AGR VET	240 280 110	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5           Veterinary Microbiology         4
AGR AGR VET VET	240 280 110 112	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5
AGR AGR VET VET VET	240 280 110 112 114	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5           Veterinary Microbiology         4           Animal Anatomy & Physiology         5
AGR AGR VET VET VET VET	240 280 110 112 114 120	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5           Veterinary Microbiology         4           Animal Anatomy & Physiology         5           Clinical Practicum I         2
AGR AGR VET VET VET VET	240 280 110 112 114 120 130	Digital Literacy         0-3           Introduction to Animal Science         3           Livestock Management         3           Introduction to Veterinary Technology         5           Veterinary Microbiology         4           Animal Anatomy & Physiology         5           Clinical Practicum I         2           Veterinary Lab Procedures I         5

VET	240	Veterinary Lab Procedures III	5
VET	250	Clinical Practicum II	5
		Subtotal	50-53
		AASTotal	69-72

### **Visual Communication**

Five programs are offered under the broader heading of Visual Communication. They are Communication Arts Technology, Design & Technology, Multimedia, Printing, and Visual Arts.

### **Visual Communication: Communication Arts Technology**

The Communication Arts Technology program provides students with the knowledge, skills, and a portfolio needed for entry-level employment as a graphic designer, commercial photographer, web designer, videographer, or video editor. These fields involve the use of specialized software combined with creativity, design, and problem solving skills to communicate an effective visual message for TV, web and interactive media, product packaging, and advertising layout. This program focuses on developing the creativity and software skills necessary to be competitive in these fields. Many courses include hands-on lab hours with one-onone assistance from the instructors. The program is completed with an internship in the student's specialty field that allows the student to transfer academic skills to a professional environment. Students and graduates of the Communication Arts Technology program have won numerous design, photography, and video awards in the creative industry.

Employment of graphic designers, photographers, web designers, videographers, and video editors is expected to grow as demand for their products continues to increase from advertisers, publishers, video production studios, and computer design firms. Graduates may be employed as graphic designers at newspapers, print shops, advertising agencies, photographic studios, multimedia shops, web design shops, television broadcasting stations, film and video production studios, department stores, corporations or non-profit agencies.

All technical courses must be completed with "C" (2.0) or greater to advance in Visual Communication programs.

### Associate in Applied Science

### Communication Arts Technology - 5004067019

(Offered at IFC)

3
3
3
(3)
(3)
3
3
15
uivalent*0-3

VCC

ART

VCA

VCA

100

110

132

170

VCA VCA VCA VCC	171 160 161 166	Advertising Design II
VCA VCM VCA VCA VCA VCA	106 115 220 270 271 290 298	Advertising Design Track - 500406701         (Offered at JFC)         Creative Typographic Design       3         2-D Animation       3         Webpage Design       3         Advertising Design III       4         Advertising Design IV       4         Folio Seminar       3         Practicum       4         Subtotal       24         Total Credit Hours for Advertising Design Track       63-66
VCC VCM VCM VCA VCA VCA	266 115 220 260 261 290 298	Commercial Photography Track - 500406702         (Offered at JFC)         Advanced Photoshop       3         2-D Animation       3         Webpage Design       3         Commercial Photography III       4         Commercial Photography IV       4         Folio Seminar       3         Practicum       4         Subtotal       24         Total Credit Hours for Commercial Photography Track         63-66
ENG MUS THA VCA VCA VCA VCA VCA	207 120 126 151 152 251 252 290 298	Digital Filmmaking Track - 500406703  (Offered at JFC)  Beginning Workshop in Imaginative Writing: Scriptwriting 3  Music Technology I 3  Acting I: Fundamentals of Acting 3  Digital Filmmaking I 3  Digital Filmmaking II 3  Digital Filmmaking III 3  Digital Filmmaking III 3  Practicum 3  Practicum 3  Practicum 2  Subtotal 26  Total Credit Hours for Digital Filmmaking Track 65-68
VCC CIT VCM IMD VCM VCM CIT VCA VCA	205 155 220 180 115 230 140 290 298	Webpage Design Track -500406704         (Offered at JFC)         Introduction to HTML OR       3         Web Page Development       (3)         Webpage Design       3         Intermediate Web Design       3         2D Animation       3         Advanced Webpage Design       3         JavaScript I       3         Folio Seminar       3         Practicum       4         Subtotal       25         Total Credit Hours for Webpage Design Track       64-67

<sup>\*</sup>Either successfully passing computer competency exam or taking an approved computer/digital literacy course.

### **Certificates**

### Multimedia Certificate in Communication Arts - 5004063039

(Offered at JFC)

Techr	ncal	or Support Courses	
VCC	150	Mac Basics OR Computer/Digital Literacy Equ	uivalent* 0-3
VCA	170	Advertising Design I	3
VCA	160	Commercial Photography I	3
VCA	171	Advertising Design II	
VCM	115	2-D Animation	3
VCC	166	Photoshop Basics	3
VCM	220	Webpage Design	3
		Total Credits for MM Certificate	
		in Communication Arts	18-21

# Visual Communication: Design & Technology

Design & Technology emphasizes creative problem solving and insight into the mix of art, design, and technical competence. This program includes a Graphic Design track, an Interactive Design track, and a Production Design track, with a core of courses common to all. The core includes general education components essential to a collegiate education and technical courses giving students an introduction to drawing, graphic design concepts, and computer graphics. In addition to core courses, students will take specialty courses for their selected option. Students may also choose to receive a certificate in these areas and an additional certificate for digital photography.

The Graphic Design track emphasizes several aspects of design in advertising, packaging, print media, and corporate identity. Students completing this track will design advertising for newspapers, magazines, promotions, and indoor/outdoor signage. Students will also identify and design a variety of packaging and printed materials, such as labels and boxes, brochures, menus, stationary sets, booklets, and newspapers. Prospective employment opportunities are in advertising agencies, graphic design studios, news media, department stores, and other creative services departments and businesses.

The Interactive Design track provides students with a mix of computer animation, webpage design, and digital video production. Students completing this option are prepared for entry-level positions in advertising agencies, graphic design studios, web design and video production studios.

The Production Design track provides students training in the operation of various print production equipment and vinyl graphics. Students will learn skills to design and produce a wide variety of printed materials, promotional items, and signage. Students completing this option are prepared for entry-level positions in various types of printing and signage companies.

All technical courses must be completed with "C" (2.0) or greater to advance in all Visual Communication programs.

### Associate in Applied Science

### Design & Technology – 5004097019 (Offered at BSC)

### Diplomas

### Graphic Design - 5004094019 (Offered at BSC, GTW)

(Offered at BSC)					(Offered at BSC, GTW)					
Gene	ral Edu	cation Requirements		Regu	ired G	eneral Education				
MAT	110	Applied Mathematics OR	3	1		Written Communication OR	3			
		Higher Level Quantitative Reasoning	(3)			Oral Communications OR				
		Natural Sciences				Humanities/Heritage	` '			
		Social/Behavioral Sciences				Quantitative Reasoning OR				
ENG	101	Writing I				Natural Sciences OR				
LING	101					Social/Behavioral Sciences				
		Heritage/Humanities					(3)			
		Total General Education Requirements	15			Subtotal	0			
Regu	ired Tea	chnical Core:		Regu	ired Te	echnical Core:				
Requ	ii eu iec		0.2	Requ	ii cu ic		0.2			
VCC	100	Computer/Digital Literacy		VCC	100	Computer/Digital Literacy				
VCC	100	Introduction to Visual Communication		VCC	100	Introduction to Visual Communication				
VCA	102	Fundamentals of Drawing OR		VCA	102	Fundamentals of Drawing OR				
ART	110	Drawing I		ART	110	Drawing I				
VCC	105	Fundamentals of Typography		VCC	105	Fundamentals of Typography				
VCA	108	Digital Color Theory		VCA	108	Digital Color Therapy				
VCC	110	Graphic Design Concepts		VCC	110	Graphic Design Concepts				
VCC	115	Strategic Concepts		VCC	115	Strategic Concepts				
VCC	125	Introduction to Computer Graphics		VCC	125	Introduction to Computer Graphics				
VCC	166	Photoshop Basics		VCC	166	Photoshop Basics				
VCA	280	Professional Portfolio Development		VCA	280	Professional Portfolio Development				
COE	199	Cooperative Education OR		COE	199	Cooperative Education OR				
VCC	298	Practicum OR	` '	VCC	298	Practicum OR	( )			
VCC	297	Internship	(3)	VCC	297	Internship				
		Subtotal	30-33	VCC	260	Publication Design	3			
				VCA	240	Package Design	3			
		Graphic Design Track – 500409701		VCA	250	Advertising Design				
		. •		VCA	255	Corporate Design	3			
		(Offered at BSC)				Approved Electives	6			
VCC	260	Publication Design				Subtotal	48-51			
VCA	240	Package Design				Total Credits for Graphic Design Diploma	F4 F7			
VCA	250	Advertising Design	2			Total Credits for Grabnic Design Dibloma	54-57			
		8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -								
VCA	255	Corporate Design								
VCA	255	Corporate Design	3							
VCA	255	Corporate Design	3			Interactive Design – 5004094029				
VCA	255	Corporate Design				Interactive Design – 5004094029 (Offered at BSC)				
VCA	255	Corporate Design Approved Technical Electives Subtotal Total Credit Hours for AAS Graphic		Requ	ired G	Interactive Design — 5004094029 (Offered at BSC) General Education				
VCA	255	Corporate Design		Requ	ired G	Interactive Design — 5004094029 (Offered at BSC) Seneral Education Written Communication OR				
VCA	255	Corporate Design Approved Technical Electives Subtotal Total Credit Hours for AAS Graphic Design Track		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR	(3)			
VCA	255	Corporate Design Approved Technical Electives Subtotal Total Credit Hours for AAS Graphic Design Track		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR	(3)			
VCA	255	Corporate Design		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR	(3)			
		Corporate Design		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR  Oral Communications OR  Humanities/Heritage  Quantitative Reasoning OR  Natural Sciences OR	(3) (3) 3 (3)			
VCM	115	Corporate Design		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  Seneral Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.	(3) (3) 3 (3)			
VCM IMD	115 240	Corporate Design		Requ	ired G	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR  Oral Communications OR  Humanities/Heritage  Quantitative Reasoning OR  Natural Sciences OR	(3) (3) 3 (3)			
VCM IMD VCM	115 240 140	Corporate Design		-		Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal	(3) (3) 3 (3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design		-		Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:	(3) (3) (3) (3) (3)			
VCM IMD VCM	115 240 140	Corporate Design	3 6 18 63-66 3 (3) 3 3	-		Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.	(3) (3) (3) (3) 6			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	3 6 18 63-66 3 3 3 3 3	-		Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.	(3)(3)(3)(3)(3) 6			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	3 6 18 63-66 3 (3) 3 3	Techi	nical o	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.	(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	3 6 18 63-66 3 3 3 3 3	<b>Techi</b> VCC	nical o	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.	(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	3 6 18 63-66 3 3 3 3 3	Techi VCC VCA	100 102	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.	(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design		Techi VCC VCA ART	100 102 110	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy	(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design		Techi VCC VCA ART VCC	100 102 110 105	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy  Graphic Design Concepts.	(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design		Techi VCC VCA ART VCC VCA	100 102 110 105 108	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy	(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	3 6 18 63-66 3 (3) 3 (3) 9 18	Techi VCC VCA ART VCC VCA VCC	100 102 110 105 108 110	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy  Graphic Design Concepts.	(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM	115 240 140 220	Corporate Design	36 18 63-663(3)3(3)9 18 63-66	Techi VCC VCA ART VCC VCA VCC VCC	100 102 110 105 108 110 115	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy  Graphic Design Concepts.  Strategic Concepts.	(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232	Corporate Design	36 18 63-663(3)3(3)9 18 63-66	VCC VCA ART VCC VCA VCC VCC VCC	100 102 110 105 108 110 115 125	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage. Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication. Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy. Graphic Design Concepts. Strategic Concepts. Introduction to Computer Graphics.	(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232	Corporate Design		Techi VCC VCA ART VCC VCA VCC VCC VCC VCC	100 102 110 105 108 110 115 125 166	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage. Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication. Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy Graphic Design Concepts. Strategic Concepts. Introduction to Computer Graphics. Photoshop Basics.	(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232	Corporate Design		Techi VCC VCA ART VCC VCA VCC VCC VCC VCC VCC	100 102 110 105 108 110 115 125 166 280	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage. Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication. Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy Graphic Design Concepts. Strategic Concepts. Introduction to Computer Graphics. Photoshop Basics. Professional Portfolio Development	(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232 212 214 216	Corporate Design		Techi VCC VCA ART VCC VCA VCC VCC VCC VCC VCC VCA COE	100 102 110 105 108 110 115 125 166 280 199	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage. Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication. Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy Graphic Design Concepts. Strategic Concepts. Introduction to Computer Graphics. Photoshop Basics. Professional Portfolio Development Cooperative Education OR. Practicum OR.	(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232 212 214 216 218	Corporate Design		Techi VCC VCA ART VCC VCA VCC VCC VCC VCC VCC VCA COE VCC	100 102 110 105 108 110 115 125 166 280 199 298	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy  Graphic Design Concepts.  Strategic Concepts  Introduction to Computer Graphics  Photoshop Basics  Professional Portfolio Development.  Cooperative Education OR.	(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232 212 214 216 218	Corporate Design		Techi VCC VCA ART VCC VCA VCC VCC VCC VCC VCC VCC VCC VCC	100 102 110 105 108 110 115 125 166 280 199 298 297	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage. Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication. Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy Graphic Design Concepts. Strategic Concepts. Introduction to Computer Graphics. Photoshop Basics. Professional Portfolio Development Cooperative Education OR Practicum OR. Internship	(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232 212 214 216 218	Corporate Design		Techi VCC VCA ART VCC VCC VCC VCC VCC VCC VCC VCC VCC VC	100 102 110 105 108 110 115 125 166 280 199 298 297 115	Interactive Design - 5004094029  (Offered at BSC)  General Education  Written Communication OR. Oral Communications OR. Humanities/Heritage Quantitative Reasoning OR. Natural Sciences OR. Social/Behavioral Sciences. Subtotal  r Support Courses: Computer/Digital Literacy. Introduction to Visual Communication Fundamentals of Drawing OR. Drawing I. Fundamentals of Typography. Digital Color Therapy Graphic Design Concepts Strategic Concepts. Introduction to Computer Graphics. Photoshop Basics. Professional Portfolio Development Cooperative Education OR Practicum OR. Internship 2-D Animation OR Web Development with Adobe Flash.	(3)(3)(3)(3)(3)(3)(3)(3)(3)			
VCM IMD VCM VCM IMD	115 240 140 220 232 212 214 216 218	Corporate Design		Techi VCC VCA ART VCC VCC VCC VCC VCC VCC VCC VCC VCC VC	100 102 110 105 108 110 115 125 166 280 199 298 297 115 240	Interactive Design – 5004094029  (Offered at BSC)  General Education  Written Communication OR.  Oral Communications OR.  Humanities/Heritage.  Quantitative Reasoning OR.  Natural Sciences OR.  Social/Behavioral Sciences.  Subtotal  r Support Courses:  Computer/Digital Literacy.  Introduction to Visual Communication.  Fundamentals of Drawing OR.  Drawing I.  Fundamentals of Typography.  Digital Color Therapy  Graphic Design Concepts.  Strategic Concepts.  Introduction to Computer Graphics.  Photoshop Basics.  Professional Portfolio Development.  Cooperative Education OR.  Internship.  2-D Animation OR.	(3)(3)(3)(3)(3)(3)(3)(3)(3)			

IMD	232	Web Design with Adobe Dreamweaver			Interactive Design Assistant – 5004093079
		Subtotal 48-51	VOC	100	(Offered at BSC)
		m . 1 a . 1b	VCC	100	Introduction to Visual Communication
		Total Credits	VCC	110	Graphic Design Concepts
		for Interactive Design Diploma 54-57	VCC	125	Introduction to Computer Graphics
			VCC	166	Photoshop Basics
		Production Design – 5004094039	VCM	115	2-D Animation OR
			IMD	240	Web Development with Adobe Flash
		(Offered at BSC)	VCM	220	Webpage Design OR
Requ	ired G	eneral Education	IMD	232	Web Design with Adobe Dreamweaver(
1		Written Communication OR	VCM	140	Digital Video
		Oral Communications OR(3)			Total Credits for Interactive Design Assistant
		Humanities/Heritage(3)			Certificate
		Quantitative Reasoning OR			
		Natural Sciences OR(3)			Production Design Assistant –5004093089
		Social/Behavioral Sciences(3)			
		Subtotal 6			(Offered at BSC,WKC)
			VCC	100	Introduction to Visual Communication
Techi	nical o	r Support Courses:	VCC	110	Graphic Design Concepts
		Computer/Digital Literacy0-3	VCC	125	Introduction to Computer Graphics
VCC	100	Introduction to Visual Communication	VCC	200	Computer Illustration
VCA	100	Fundamentals of Drawing OR	VCC	166	Photoshop Basics
ART	110	Drawing I(3)	Chor	se two	(2) approved electives from the following list:
VCC	105	Fundamentals of Typography	VCC	212	Vinyl Graphics and Applications
VCA	108	71 6 1 7	VCC	214	Dye-Sublimation Process(
		Digital Color Therapy	VCC	214	
VCC	110	Graphic Design Concepts			Pad Printing (
VCC	115	Strategic Concepts	VCC	218	Digital Printing
VCC	125	Introduction to Computer Graphics	VCC	250	Screen Printing(
VCC	166	Photoshop Basics			Total Credits for Production Design Assistant
VCA	280	Professional Portfolio Development			Certificate
000	199	Cooperative Education OR			
COE					
VCC	298	Practicum OR(3)		W:	.al Oammuniaatian Multimadia
VCC VCC	297	Internship(3)		Visi	ıal Communication: Multimedia
VCC VCC VCC	297 212	Internship(3) Vinyl Graphics and Applications		Visu	ual Communication: Multimedia
VCC VCC VCC	297 212 214	Internship(3)Vinyl Graphics and Applications3Dye-Sublimation Processes3	The V		
VCC VCC VCC VCC	297 212 214 216	Internship(3)Vinyl Graphics and Applications3Dye-Sublimation Processes3Pad Printing3		isual Co	ommunication: Multimedia Track provides students the
VCC VCC VCC	297 212 214	Internship         (3)           Vinyl Graphics and Applications         3           Dye-Sublimation Processes         3           Pad Printing         3           Digital Printing         3	skills	isual Co	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web
VCC VCC VCC VCC	297 212 214 216	Internship(3)Vinyl Graphics and Applications3Dye-Sublimation Processes3Pad Printing3Digital Printing3Screen Printing3	skills sites,	isual Co necessar animatio	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, webons, audio/video presentations, etc. In order to advance
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship         (3)           Vinyl Graphics and Applications         3           Dye-Sublimation Processes         3           Pad Printing         3           Digital Printing         3           Screen Printing         3           Approved Technical Electives         3	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship(3)Vinyl Graphics and Applications3Dye-Sublimation Processes3Pad Printing3Digital Printing3Screen Printing3	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, webons, audio/video presentations, etc. In order to advance
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship         (3)           Vinyl Graphics and Applications         3           Dye-Sublimation Processes         3           Pad Printing         3           Digital Printing         3           Screen Printing         3           Approved Technical Electives         3	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship       (3)         Vinyl Graphics and Applications       3         Dye-Sublimation Processes       3         Pad Printing       3         Digital Printing       3         Screen Printing       3         Approved Technical Electives       3         Subtotal       48-51         Total Credits for Production Design Diploma       54-57	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship       (3)         Vinyl Graphics and Applications       3         Dye-Sublimation Processes       3         Pad Printing       3         Digital Printing       3         Screen Printing       3         Approved Technical Electives       3         Subtotal       48-51	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship	skills sites, in a V	isual Conecessar animation	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**
VCC VCC VCC VCC VCC	297 212 214 216 218	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)
VCC VCC VCC VCC VCC VCC	297 212 214 216 218 250	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:
VCC VCC VCC VCC VCC VCC VCC	297 212 214 216 218 250	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC	297 212 214 216 218 250	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC	297 212 214 216 218 250 100 102 110	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC	297 212 214 216 218 250 100 102 110 105	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA	297 212 214 216 218 250 100 102 110 105 108	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC	297 212 214 216 218 250 100 102 110 105 108 110	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  ucation Requirements:  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115	Internship	skills sites, in a V make	risual Conecessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Accation Requirements:  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make	risual Co necessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Accation Requirements:  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115	Internship	skills sites, in a V make	risual Conecessar animatic isual Co a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Accation Requirements:*  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal  **Core**  Computer/Digital Literacy
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC	isual Conecessar animatic isual Co a letter 101 nical C	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal  **Subtotal**  Core  Computer/Digital Literacy
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC VCC VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC  VCC  VCC  VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance mmunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal  **Core**  Computer/Digital Literacy
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC	isual Conecessar animatic isual Conecessar animatic isual Conecessar a letter	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **Ucation Requirements:*  Quantitative Reasoning
VCC VCC VCC VCC VCC VCC VCC VCC VCC VCA ART VCC VCA VCC VCC VCC VCC VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCC	isual Conecessar animatic isual Conecessar a	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **ucation Requirements:*  Quantitative Reasoning
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a V make  Gene  ENG  Tech  VCC VCC VCC VCC VCC VCC VCC	isual Conecessar animatic isual Conecessar a	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **Ucation Requirements:*  Quantitative Reasoning
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a Vimake  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCC  VCC  V	risual Conecessar animatic isual Conecessar	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **ucation Requirements:*  Quantitative Reasoning
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a Vimake  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCC  VCA  VCA	risual Conecessar animatic isual Conecessar	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  Multimedia - 1003047019  (Offered at HZC,WKC)  **Ucation Requirements:*  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal  **Core**  Computer/Digital Literacy
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a Vimake  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCC  VCA  VCA  VCM	101  101  101  101  100  105  110  115  150  166  200  108  280  110	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **Ucation Requirements:*  Quantitative Reasoning  Natural Sciences  Social/Behavioral Sciences  Heritage/Humanities  Writing I  Subtotal  **Core**  Computer/Digital Literacy
VCC	297 212 214 216 218 250 100 102 110 105 108 110 115 125 166	Internship	skills sites, in a Vimake  Gene  ENG  Tech  VCC  VCC  VCC  VCC  VCC  VCA  VCA  VC	risual Conecessar animatic isual Conecessar	ommunication: Multimedia Track provides students the ry to prepare and produce multimedia presentations, web ons, audio/video presentations, etc. In order to advance ommunication: Multimedia (VCM) course, a student must grade of "C" or better.  **Associate in Applied Science**  **Multimedia - 1003047019*  **(Offered at HZC,WKC)**  **Ucation Requirements:*  Quantitative Reasoning

		Animation Track - 100304701	VCC	200	Computer Illustration	
		(Offered at HZC,WKC)	VCA	108	Digital Color Theory	
VCM	115	2-D Animation	VCA	280	Professional Portfolio Development	
VCM		After Effects	VCM	110	Fundamentals of Animation	
VCM	210	3-D Animation	COE	199	Cooperative Education OR	
VCM	225	Advanced 3-D Animation	VCC VCC	297	Internship OR	` '
		Approved Technical Electives	VCC	298	Practicum	33-36
		Subtotal 15			Subtotal	33-30
		Total Credits for AAS: Multimedia Animation Track			Multimedia Track - 100304401	
		63-66			(Offered at HZC,WKC)	
		W I B I T I 400004700	VCC	220	InDesign Basics	3
		Web Design Track - 100304702	VCM	115	2-D Animation	
		(Offered at HZC,WKC)	VCM	140	Digital Video	
VCM	115	2-D Animation	VCM	220	Webpage Design	
VCM	220	Webpage Design 3	VCC	266	Advanced Photoshop	
VCM	230	Advanced Webpage Design			Subtotal	15
		Approved Technical Electives			Total Credits for Multimedia Track	54-57
		Total Credits for AAS: Multimedia - Web Design 63-66			Web Design Track - 100304402	
		Digital Dagier Track 100204702			(Offered atWKC)	
		Digital Design Track - 100304703	VCM	115	2-D Animation	
		(Offered at HZC,WKC)	VCM	220	Webpage Design	
VCC	220	InDesign Basics	VCM	220	Advanced Webperg Degistr	
VCC	266	Advanced Photoshop	VCM	230	Advanced Webpage Design Technical Electives	
VCC	210	Advanced Computer Illustration			Subtotal	15
		Subtotal 15				13
					Total for Web Design Track	54-57
		Total Credits for AAS: Multimedia - Digital Design 63-66			Animation Track - 100304403	
		Audio/Video Track - 100304704	VCM	115	(Offered at SMC,WKC) 2-D Animation	3
		(Offered at HZC,WKC)	VCM	210	3-D Animation	
VCM	115	2-D Animation	VCM	215	After Effects	
VCM		After Effects 3	VCM	225	Advanced 3-D Animation	
VCM		Digital Video			Technical Elective	3
VCM	240	Advanced Digital Video			Subtotal	15
		Approved Technical Elective			Total for Animation Track	54-57
		Subtotal 15			Total for Animation frack	34-37
		Total Credits for AAS: Multimedia - Audio/Video			Digital Design Track - 100304404	
		63-66			(Offered atWKC)	
		Dinlama	VCC	210	Advanced Computer Illustration	3
		Diploma	VCC	220	InDesign Basics	
		M (t''	VCC	266	Advanced Photoshop	
		Multimedia - 1003044019			Approved Technical Electives	6
		(Offered at HZC,WKC)			Subtotal	15
Gene	ral Edu	cation Requirements (6-9 credit hours)			Total for Digital Design Diploma	54-57
		n Communication OR				
		ommunications OR(3)			Audio/Video Track - 100304405	
		ities/Heritage(3)			(Offered at WKC)	
		tative Reasoning OR	VCM	115	2-D Animation	3
		Behavioral Sciences(3)	VCM	140	Digital Video	
	oociai, .	Subtotal 6	VCM	240	Advanced Digital Video	
		v	VCM	215	After Effects	
Techi	nical or	Support Courses			Approved Technical Electives	
		Computer/Digital Literacy			Subtotal	15
VCC	100	Introduction to Visual Communication			Total for Audio/VideoTrack	54-57
VCC	105	Fundamentals of Typography			Tomi for fracto, video frack	34-37
VCC	110	Graphic Design Concepts				
VCC	115	Strategic Concepts				
VCC	150	Mac Basics				
VCC	166	Photoshop Basics				

		Certificates	VCC VCC	110 166	Graphic Design Concepts
		Multimedia - 1003043019	VCC	200	Computer Illustration
		(Offered at HZC, JFC,WKC)	VCM	220	InDesign Basics
VCA	108	Digital Color Theory			Total for Digital Media certificate 24
VCC	100	Introduction to Visual Communication			
VCC	110	Graphic Design Concepts		Vi	sual Communication: Printing
VCC	150	Mac Basics		VI	sual communication, i i mining
VCC	166	Photoshop Basics	D		ti
VCC	200	Computer Illustration			option under the broader heading of Visual Communica-
VCM	110	Fundamentals of Animation			inting curriculum emphasizes technical competence to bet-
VCM	140	Digital Video			tudents for successful careers in print manufacturing and/or
VCM	220	Webpage Design3Approved Technical Electives3			ction in a highly developed consumer economy. Laboratory
		Total for Multimedia Certificate 30			in page layout, computer illustration, photo imaging, pre- logies, various printing operations, and finishing and bindery
		Animation - 1003043029			re combined with classroom work. All technical courses pleted with "C" (2.0) or greater to advance in all Visual
					ion programs.
VCA	100	(Offered at HZC, JFC, SMC, WKC)			1 8
VCA VCC	108 100	Digital Color Theory			Associate in Applied Science
VCC	105	Fundamentals of Typography			нээннасын нүүнси эльыны
VCC	110	Graphic Design Concepts			Drinting 1002017010
VCC	150	Mac Basics			Printing - 1003017019
VCC	166	Photoshop Basics	Gene	ral Ed	ucation Requirements – 15-18 credit hours
VCC	200	Computer Illustration	MAT	110	Applied Mathematics OR
VCM	110	Fundamentals of Animation			Higher Level Quantitative Reasoning(3)
VCM	115	2-D Animation			Natural Sciences
VCM	210	3-D Animation			Social/Behavioral Sciences
		Total for Animation Certificate 30	ENG	101	Heritage/Humanities         3           Writing I         3
			LIVO	101	Subtotal 15
		Web Design - 1003043039			
		(Offered at BSC, GTW, HZC, JFC, SMC,WKC)	Requ	ired C	Core:
VCC	100	Introduction to Visual Communication	•		Computer/Digital Literacy0-3
VCC	105	Fundamentals of Typography	VCC	100	Introduction to Visual Communication
VCC	110	Graphic Design Concepts	VCC	105	Fundamentals of Typography
VCA	108	Digital Color Theory	VCC	166	Photoshop Basics
VCC	150	Mac Basics	VCC	200	Computer Illustration
VCC VCC	166 200	Photoshop Basics	VCC VCC	220 270	InDesign Basics
VCC	115	Computer Illustration	VCP	285	Electronic Prepress
VCM	220	Webpage Design	COE	199	Cooperative Education OR
VCM	230	Advanced Webpage Design	VCC	297	Internship OR(3)
		Total 30	VCC	298	Practicum(3)
					Total 24-27
		Audio/Video - 1003043049			
					Print Manufacturing Track - 100301701
VCA	108	(Offered at HZC,WKC) Digital Color Theory	VCP	140	Finishing and Binding Operations
VCC	100	Introduction to Visual Communication	VCP	230	Press I
VCC	105	Fundamentals of Typography	VCP	274	Press II
VCC	150	Mac Basics			Approved Technical Electives
VCC	166	Photoshop Basics			Subtotal 21
VCM	110	Fundamentals of Animation			Total for Print Manufacturing AAS 60-63
VCM	140	Digital Video3			Total for 11 int Manufacturing AAS 00-03
VCM	115	2-D Animation			D' '- I D
VCM	240	Advanced Digital Video			Digital Production Artist Track - 100301702
		Approved Elective	VCA	120	Digital Photography
		Total 30	VCC	230	Advanced InDesign
			VCC	266	Advanced Photoshop
		Digital Design - 1003043059			Approved Technical Electives
		(Offered at HZC, JFC,WKC)			Subtotal 21
VCC	100	Introduction to Visual Communication			Total for Digital Production AAS 60-63
VCC	105	Fundamentals of Typography3			
VCA	108	Digital Color Theory			

VCC 150

### **Diplomas**

### Digital Production Artist - 1003014019

(Offered at BSC, JFC, SMC)

Gene		(Offered at BSC, JFC, SMC)
	ral Edı	acation Requirements
		Written Communication OR
		Oral Communications OR(3)
		Humanities/Heritage(3)
		Quantitative Reasoning OR
		Natural Sciences(3)
		Social/Behavioral Sciences(3)
		Subtotal 6
		Subtour
Techi	nical o	r Support Courses
icciii	ilicai o	Computer/Digital Literacy
VCA	120	
VCA		Digital Photography
	100	Introduction to Visual Communication
VCC	105	Fundamentals of Typography
VCC	166	Photoshop Basics 3
VCC	200	Computer Illustration
VCC	220	InDesign Basics
VCC	230	Advanced InDesign
VCC	266	Advanced Photoshop
VCC	270	Acrobat Basics
VCP	285	Electronic Prepress
COE	199	Cooperative Education OR
VCC	297	Internship OR(3)
VCC	298	Practicum(3)
		Approved Technical Electives
		Subtotal 42-45
		Total for Digital Production Artist Diploma 48-51
		Driet Manufacturing 1000014000
		Print Manufacturing — 1003014029
		(Offered at BSC, JFC)
Gene		
Gene	ral Edi	ication Requirements
	ral Edu	ucation Requirements Written Communication OR
	ral Edı	Written Communication OR
	ral Edu	Written Communication OR
	ral Edu	Written Communication OR
	ral Edu	Written Communication OR
	ral Edu	Written Communication OR.       3         Oral Communications OR.       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR.       3         Natural Science       (3)
	ral Edu	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)
	ral Edu	Written Communication OR.       3         Oral Communications OR.       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR.       3         Natural Science       (3)
T. 1		Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6
Techi		Written Communication OR.       3         Oral Communications OR.       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR.       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6
	nical o	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3
VCC	nical o	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       6         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3
VCC VCC	100 105	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       6         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3
VCC VCC VCC	100 105 166	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3
VCC VCC VCC	100 105 166 200	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3
VCC VCC VCC VCC	100 105 166 200 220	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3
VCC VCC VCC VCC VCC	100 105 166 200 220 270	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3
VCC VCC VCC VCC VCC VCC	100 105 166 200 220 270 140	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3
VCC VCC VCC VCC VCC VCP VCP	100 105 166 200 220 270 140 230	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6
VCC VCC VCC VCC VCC VCC	100 105 166 200 220 270 140	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I.       6         Press II       6
VCC VCC VCC VCC VCC VCP VCP	100 105 166 200 220 270 140 230	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6
VCC VCC VCC VCC VCC VCP VCP VCP	100 105 166 200 220 270 140 230 274	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6         Press II       6         Electronic Prepress       3         Cooperative Education OR       3
VCC VCC VCC VCC VCC VCC VCP VCP VCP	100 105 166 200 220 270 140 230 274 285	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6         Press II       6         Electronic Prepress       3         Cooperative Education OR       3         Internship OR       (3)
VCC VCC VCC VCC VCC VCP VCP VCP VCP COE	100 105 166 200 220 270 140 230 274 285 199	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6         Press II       6         Electronic Prepress       3         Cooperative Education OR       3
VCC VCC VCC VCC VCC VCP VCP VCP VCP VCP	100 105 166 200 220 270 140 230 274 285 199 297	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6         Press II       6         Electronic Prepress       3         Cooperative Education OR       3         Internship OR       (3)
VCC VCC VCC VCC VCC VCP VCP VCP VCP VCP	100 105 166 200 220 270 140 230 274 285 199 297	Written Communication OR       3         Oral Communications OR       (3)         Humanities/Heritage       (3)         Quantitative Reasoning OR       3         Natural Science       (3)         Social/Behavioral Sciences       (3)         Subtotal       6         r Support Courses       0-3         Computer/Digital Literacy       0-3         Introduction to Visual Communication       3         Fundamentals of Typography       3         Photoshop Basics       3         Computer Illustration       3         InDesign Basics       3         Acrobat Basics       3         Finishing & Binding Operations       3         Press I       6         Press II       6         Electronic Prepress       3         Cooperative Education OR       3         Internship OR       (3)         Practicum       (3)

**Total for Print Manufacturing Diploma** 

48-51

### **Certificates**

### Digital Production Assistant - 1003013019

(Offered at BSC, JFC, SMC, WKC)

Techi	nical o	or Support Courses	
VCC	100	Introduction to Visual Communication	3
VCC	105	Fundamentals of Typography and Design	3
VCC	166	Photoshop Basics	3
VCC	220	InDesign Basics	3
		Approved Technical Elective	3
		Total	15
		Drint Chan Accietant _ 1002012020	

### Print Shop Assistant - 1003013029

(Offered at BSC, JFC)

Techi	nical (	or Support Courses	
VCC	100	Introduction to Visual Communication	3
VCP	140	Finishing and Binding Operations	3
VCP	230	Press I.	6
		Total	12

### Offset Press Operator - 1003013039

(Offered at BSC, JFC)

Tech	nical o	or Support Courses	
VCC	100	Introduction to Visual Communication	3
VCP	140	Finishing and Binding Operations	3
VCP		Press I	
VCP	274	Press II	6
		Total	18

### Digital Imaging Assistant - 1003013059

(Offered at BSC, SMC, WKC)

nical c	or Support Courses	
166	Photoshop Basics	3
120	Digital Photography	3
	Approved Technical Electives	6
	Total	12
	166	Approved Technical Electives

### **Visual Communication: Visual Arts**

Students desiring certificates in two-dimensional arts (such as painting or photography), or three-dimensional arts (such as sculpture or ceramics), may select this avenue and/or may participate in the full degree concurrently. The certificates are designed to meet the needs of the many non-traditional and part-time students and artisans of Kentucky. The certificate option will also help introduce the program to students who are not immediately willing to commit to a degree program but whom still desire professional training in the visual arts.

### **Certificates**

### 2-Dimensional Studies - 5007063019

 $(O\!f\!f\!ered\ at\ JFC)$ 

		(Official diff of	
ART	110	Drawing I	3
ART	112	2-Dimensional Design	3
ART	105	Ancient through Medieval Art History OR	
ART	106	Renaissance through Modern Art History OR	
		Approved Art History Course	
		2-Dimensional Art Electives	9
		<b>Total 2-Dimensional Studies Certificate</b>	18

#### 3-Dimensional Studies - 5007063029 (Offered at JFC) 110 ART ART 113 ART 105 106 Renaissance through Modern Art History OR ART Approved Art History Course **Total 3-Dimensional Studies Certificate**

### **Volumetric Medical Imaging**

The Volumetric Medical Imaging (VMI) Certificate is designed for students who are certified radiologic technologists. Students will learn to identify anatomical features in cross section and volume, reconstruct volumetric data from 2D radiological data, recognize pathologic anatomy and manipulate volumes for physicians to review. Graduates will be qualified to seek employment in radiology departments of hospitals or with private companies who contract this service. Academic Program Coordinator permission is required to enter the certificate program. Prerequisites: Basic computer literacy, such as CIS 100 or equivalent, BIO 137, 139.

### Certificate

### Volumetric Medical Imaging - 5109113019

	(Offerea at JFC)	
137	Human Anatomy and Physiology I*	4
139	Human Anatomy and Physiology II*	4
200	Sectional Anatomy & Pathology I	
201	Sectional Anatomy & Pathology II	4
210	Volumetric Medical Imaging I	4
211		
	Total Credits	24
	139 200 201 210	Human Anatomy and Physiology I*

<sup>\*</sup>BIO 137&139 must have been completed within the last 10 years.

### **Welding Technology**

The Welding Technology Program is dedicated to welding education, technology and student success. Students in this program will learn various welding techniques, careers and the skills needed to be successful in the Welding Technology field. Welding occupations are primarily concerned with joining, surfacing, or repairing structures or parts made of metal or other weldable materials. The skills and knowledge needed to determine the appropriate welding technique required for a specific project and to successfully perform that technique are gained through course work and practical experience. The program offers a wide range of credentials including the Associate in Applied Science Degree, Diploma, and eleven certificates in Welding Technology.

### Associate in Applied Science

### Welding Technology - 4805087019

		(Offered at BLC, BSC, ELC, JFC)	
ENG	101	Writing I	3
MAT	110	Applied Mathematics OR	3
MAT	116	Technical Mathematics OR	(3)
MAT	146	Contemporary College Mathematics OR	(3)
MAT	150	College Algebra OR	(3)
MA	109	College Algebra	(3)
		Heritage/Humanities	3
		Natural Sciences OR	
		Recommended courses of:	

		Total Credits	60 – 68
		Subtotal	42 - 49
		Technical Electives	
WLD	299	Cooperative Work Experience	
WLD	298	Welding Practicum OR	
WLD	221	Welding Certification Lab	
WLD	220	Welding Certification	2
WLD	171	Blueprint Reading for Welding Lab	3
WLD	170	Blueprint Reading for Welding	2
WLD	143	Gas Metal Arc Welding (GMAW) Groove Lab	
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab	3
WLD	140	Gas Metal Arc Welding (GMAW) G100Ve Lab	
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab	
WLD	131	Gas Tungsten Arc Welding (GTAW) Gas Tungsten Arc Welding (GTAW) Fillet Lab	
WLD	130		
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove	
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing Lab OR	2
WLD WLD	121 123	Shielded Metal Arc Welding (SMAW) Fillet Lab	3
WLD	120	Shielded Metal Arc Welding (SMAW)	
WLD	111	Cutting Processes Lab	(3)
WLD	101	Oxy-Fuel Systems Lab OR	
WLD	110	Cutting Processes	
WLD	100	Oxy-Fuel Systems OR	
IIII D	100	Computer/Digital Literacy	
Requ	ired	a modelle	0.7
		General Education Total Credits	18-19
COM	181	Basic Public Speaking	(3)
COM	252	Introduction to Interpersonal Communication OR	
SOC	101	Introduction to Sociology	
PSY	110	General Psychology OR	
PHY	161	Introductory Physics Lab I	
PHY	151	Introductory Physics I AND	(3)

NOTE: Computer/Digital literacy must be demonstrated either by competency exam or by successfully completing a computer/digital literacy course.

### Diploma

#### Combination Welder - 4805084029

(Offered at ASC, BLC, BSC, ELC, GTW, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)

ENG	101	Writing I OR3
TEC	200	Technical Communications(3)
MAT	110	Applied Mathematics OR
MAT	116	Technical Mathematics OR(3)
MAT	146	Contemporary College Mathematics OR(3)
MAT	150	College Algebra OR(3)
MA	109	College Algebra(3)
		General Education Total Credits

NOTE: Computer/Digital literacy must be demonstrated either by competency exam or by successfully completing a computer/digital literacy course.

Computer/Digital Literacy......0-3

#### Required

WLD	100	Oxy-ruel Systems OR
WLD	110	Cutting Processes(2)
WLD	101	Oxy-Fuel Systems Lab OR
WLD	111	Cutting Processes Lab(3)
WLD	120	Shielded Metal Arc Welding (SMAW)
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing
		Lab OR
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove Lab(3)
WLD	130	Gas Tungsten Arc Welding (GTAW)
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab
WLD	140	Gas Metal Arc Welding (GMAW)
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab

WLD	143	Gas Metal Arc Welding (GMAW) Groove Lab	WLD	120	Shielded Metal Arc Welding (SMAW) AND(2)
WLD	170	Blueprint Reading for Welding	WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR(3)
WLD	171	Blueprint Reading for Welding Lab	WLD	130	Gas Tungsten Arc Welding (GTAW) AND(2)
WLD	220	Welding Certification	WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab OR(3)
WLD	221	Welding Certification Lab	WLD	140	Gas Metal Arc Welding (GMAW) AND(2)
WLD WLD	298 299	Welding Practicum OR	WLD WLD	141 152	Gas Metal Arc Welding (GMAW) Fillet Lab OR(3)  Basic Welding R
WLD	2))	Technical Elective	WLD	132	Basic Welding B         (5)           Total Credits         7-10
		Subtotal 41-49			
		Total Credits 47-55	, a. CC		Production Line Welder - 4805083059
*Tech	nical El	ectives:	(Offer	ed at AS	SC, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,
WPP	200	Workplace Principles	WLD	130	SEC, SKY, SMC,WKC) Gas Tungsten Arc Welding (GTAW)
WLD	151	Basic Welding A	WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab
WLD	161	Submerged Arc Welding Lab	WLD	140	Gas Metal Arc Welding (GMAW)
WLD	181	Advanced Welding Systems Lab	WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab
WLD WLD	191 147	Plasma Arc Welding Systems Lab. 1 Flux Cored Arc Welding Lab. 1	WLD	100	Oxy-Fuel Systems OR
WLD	145	Gas Metal Arc Welding Aluminum Lab	WLD	110	Cutting Processes(2)
WLD	251	Welding Automation Lab	WLD	101	Oxy-Fuel Systems Lab OR
WLD	253	Pipe Fitting and Template Development Lab	WLD WLD	111 120	Cutting Processes Lab         (3)           Shielded Metal Arc Welding (SMAW)         2
WLD	229	Shielded Metal Arc Welding Pipe Lab B		121	Shielded Metal Arc Welding (SMAW) Fillet Lab
WLD	239	Orbital Tube Welding			Total Credits 19-20
WLD	240	Materials Technology			
BEX BEX	100 101	Basic Electricity for Non-Majors			ARC Welder - 4805083029
FEX	100	Basic Electricity Lab for Non-Majors	(000	. 1 ., 40	
		nclusive. Other courses may be approved at the discretion of the	(Offer	ea at AS	SC, BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,
	n coordinate		WLD	100	SEC, SKY, SMC,WKC)           Oxy-Fuel Systems OR         2
1 0		A -141 -	WLD	110	Cutting Processes(2)
		Certificates	WLD	101	Oxy-Fuel Systems Lab OR
		W II II 400F000400	WLD	111	Cutting Processes Lab(3)
		Welder Helper - 4805083129	WLD	120	Shielded Metal Arc Welding (SMAW)
(Offer	red at ASC	BLC, BSC, ELC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY,	WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR 3
		SMC,WKC)	WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing
WLD	151	Basic Welding A OR	W D	225	Lab OR
WLD	120	Shielded Metal Arc Welding (SMAW) AND(2)	WLD	130	Shielded Metal Arc Welding (SMAW) Open Groove Lab(3) Gas Tingsten Arc Welding (CTAW)
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab OR(3)  Cas Tyngston Arg Welding (CTAW) AND	WLD WLD	131	Gas Tungsten Arc Welding (GTAW)
WLD WLD	130 131	Gas Tungsten Arc Welding (GTAW) AND	WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab(3)
WLD	140	Gas Metal Arc Welding (GMAW) AND(2)	WLD	140	Gas Metal Arc Welding (GMAW)
WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab OR(3)	WLD	141	Gas Metal Arc Welding (GMAW) Fillet Lab OR 3
WLD	152	Basic Welding B OR(5)	WLD		Gas Metal Arc Welding (GMAW) Fillet Groove Lab(3)
IMT	100	Welding for Maintenance AND(3)	WLD		Blueprint Reading for Welding
IMT	101	Welding for Maintenance Lab(2)	WLD	171	Blueprint Reading for Welding Lab
		Total Credits 2-5			Total 24-25
		Gas Welder - 4805083039			Pipeline Welder - 4805083109
(Offer	red at ASC	BLC, BSC, ELC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SKY,	(Offer	ed at AS	SC, BLC, BSC, ELC, HZC, JFC, MDC, MYC, OWC, SEC, SMC, WKC)
(3)61		SMC, WKC)	WLD	100	Oxy-Fuel Systems OR
WLD	100	Oxy-Fuel Systems	WLD	110	Cutting Processes(2)
WLD	101	Oxy-Fuel Systems Lab	WLD	101	Oxy-Fuel Systems Lab OR
		Total Credits 4	WLD	111	Cutting Processes Lab
			WLD	120	Shielded Metal Arc Welding (SMAW)
		ARC Cutter - 4805083099	WLD WLD	130 140	Gas Tungsten Arc Welding (GTAW)         2           Gas Metal Arc Welding (GMAW)         2
(Offer	ad at ASC	BLC, BSC, ELC, HPC, HZC, JFC, MDC, MYC, OWC, SEC, SMC,	WLD	170	Blueprint Reading for Welding
ОПег	ea at ASC,	WKC)	WLD	171	Blueprint Reading for Welding Lab
WLD	110	Cutting Processes	WLD	220	Welding Certification
WLD	111	Cutting Processes Lab	WLD	221	Welding Certification Lab
		Total Credits 5	WLD	227	Shielded Metal Arc Welding (SMAW) Pipe Lab A
			WLD WLD	235 245	Gas Tungsten Arc Welding (GTAW) Pipe Lab A
		Tack Welder - 4805083119			Gas Metal Arc Welding (GMAW) Pipe Lab A
(Offer	ed at ASC	BLC, BSC, ELC, GTW, HEC, HPC, HZC, JFC, MDC, MYC, OWC,			ded Electives:  Shielded Motel Are Wolding (SMAW) Bine Leb B (2)
(S)	.a ut 1100,	SEC, SKY, SMC,WKC)	WLD WLD	229 237	Shielded Metal Arc Welding (SMAW) Pipe Lab B
WLD	170	Blueprint Reading for Welding	WLD	247	Gas Tungsten Arc Welding (GTAW) Pipe Lab B(3) Gas Metal Arc Welding (GMAW) Pipe Lab B(3)
WLD	171	Blueprint Reading for Welding Lab	WLD		Pipe Fitting and Template Development Lab(1)
WLD	151	Basic Welding A OR			Total 29-40

(Offer		/S National Skills Standards Level I - 4805083089 SC, BLC, BSC, ELC, HEC, HPC, HZC, JFC, MDC, MYC, OWC, SEC,		V	Vomen's and Gender Studies
		SKY, $SMC$ , $WKC$ )	The W	omen's	and Gender Studies Certificate Program provides an in-
WLD	100	Oxy-Fuel Systems OR			y approach that engages students Win exploring and under-
WLD	110	Cutting Processes(2)			orical and contemporary social issues with a focus on gen-
WLD	101	Oxy-Fuel Systems Lab OR			rses will require students to read, write, and think critically
WLD	111	Cutting Processes Lab			
WLD	120	Shielded Metal Arc Welding (SMAW)			sues as identity, sexuality, the media, family, violence, health
WLD	121 123	Shielded Metal Arc Welding (SMAW) Fillet Lab			ment/discrimination, political structures, the intersection
WLD	123	Shielded Metal Arc Welding (SMAW) Groove			re, and poverty and the representation and participation of
WLD	225	with Backing Lab OR	wome	n on the	e world stage in artistic and socio-political spheres.
WLD	130 131	Gas Tungsten Arc Welding (GTAW)			Certificate
WLD	133 140	Gas Tungsten Arc Welding (GTAW) Groove Lab			Women's and Gender Studies – 0502073019
WLD WLD	141	Gas Metal Arc Welding (GMAW)			
WLD	143	Gas Metal Arc Welding (GMAW) Fillet Lab	WCC	200	(Offered at JFC)
WLD	170	Blueprint Reading for Welding	WGS	200	Introduction to Women's and Gender Studies in the Social
	171	Blueprint Reading for Welding Lab	WGS	201	Sciences OR
WED	1,1	Total 33-34	WGS	201	in the Arts and Humanities(3)
		33 31	HIS	266	History of American Women to 1920 OR
		01' 11 184 1 14 187 11' 4005000400	HIS	267	History of American Women from 1920 OR(3)
		Shielded Metal Arc Welding - 4805083139	HIS	265	History of Women in America(3)
(Offer	ed at BI	.C, BSC, ELC, HEC, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)	1110	-00	Electives (Selected from the following list or by consent of instructor)
WLD	120	Shielded Metal Arc Welding (SMAW)			Total Credits 12
WLD	121	Shielded Metal Arc Welding (SMAW) Fillet Lab			
WLD	123	Shielded Metal Arc Welding (SMAW) Groove with Backing Lab OR			ntisfies general education and cultural studies requirements. HIS 266 and neet general education nor cultural studies requirements.
WLD	225	Shielded Metal Arc Welding (SMAW) Open Groove Lab(3)			-
WLD	170	Blueprint Reading for Welding	ANT	160	d Gender Studies Electives: (Required: 6 credits)
WLD	171	Blueprint Reading for Welding Lab	ANT	220	Cultural Diversity in the Modern World
WLD	100	Oxy-Fuel Systems OR	BIO	120	Human Ecology
WLD	110	Cutting Process(2)	COM	299	Special Topics in Communication:
WLD	101	Oxy-Fuel Systems Lab OR	COM	200	Gender and Communication
WLD	111	Cutting Processes Lab(3)	ENG	233	Literature and Identities: (Sexuality & Representation) 3
		Total 17-18	ENG	232	Literature and Place (Sub-topic required)
			ENG	234	Introduction to Women's Literature
		Gas Metal Arc Welding - 4805083149	FAM	253	Human Sexuality: Development, Behavior, and Attitudes 3
(000	. 1 ., DI	C DCC FIG. LIFE LIFE HE MDC MVC OWC CFC CVV CMC	FLK	276	Introduction to Folk Studies
(Offer	еа ат ы	.C, BSC, ELC, HEC, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC,	FLK	280	Cultural Diversity in the United States
WID	140	WKC)	GEO	160	Lands and Peoples of the Non-Western World 3
WLD	140	Gas Metal Arc Welding (GMAW)	GEO	240	Geography and Gender 3
WLD WLD	141 143	Gas Metal Arc Welding (GMAW) Groove Lab OR	HIS	265	History of Women in America
WLD	245	Gas Metal Arc Welding (GMAW) Pipe Lab A OR(3)	HIS	266*	History of American Women to 1920*
WLD	147	Flux Cored Arc Welding (FCAW) Lab(1)	HIS	267*	History of American Women from 1920*
WLD	170	Blueprint Reading for Welding	HUM	121	Peace Studies
WLD	171	Blueprint Reading for Welding Lab	PHI	130	Ethics
WLD	100	Oxy-Fuel Systems OR	PHI	110	Medical Ethics
WLD	110	Cutting Process(2)	REL SOC	101	Introduction to Religious Studies
WLD	101	Oxy-Fuel Systems Lab OR		235 275	Inequality in Society
WLD	111	Cutting Processes Lab(3)	SWK WGS	200*	The Family
		Total 15-18	WGS	200	Sciences* (if not taken as core)
			WGS	201*	Introduction to Women's and Gender Studies in the Arts and
		Gas Tungsten Arc Welding - 4805083159			Humanities* (if not taken as core)
(Offer	ed at BI	.C, BSC, ELC, HEC, HZC, JFC, MDC, MYC, OWC, SEC, SKY, SMC, WKC)			Total Credits 12
WLD	130	Gas Tungsten Arc Welding (GTAW)			
WLD	131	Gas Tungsten Arc Welding (GTAW) Fillet Lab			
WLD	133	Gas Tungsten Arc Welding (GTAW) Groove Lab OR			
WLD	235	Gas Tungsten Arc Welding (GTAW) Pipe Lab A(3)			
WLD	170	Blueprint Reading for Welding 2			
WLD	171	Blueprint Reading for Welding Lab			
WLD	100	Oxy-Fuel Systems OR			
WLD	110	Cutting Process(2)			
WLD	101	Oxy-Fuel Systems Lab OR			

WLD

111

Total

Cutting Processes Lab .....(3)

17-18

### **Wood Manufacturing Technology**

(Under Revision)

This diverse program is designed to provide broad-based training for entry-level employees in the secondary wood processing industry. Students are exposed to an array of tasks ranging from product design to installation of finished products including: furniture, cabinetry, and millwork.

### Diploma

### Wood Technologist - 4807034019

(Offered at JFC)

Daguinada

Requi	ired:		
CPÚ	100#	Introduction to Computers	,
DFT	120	Computer Aided Drafting I OR4	-
CAD	100	Introduction to Computer-Aided Design(3)	,
EFM	100	Personal Financial Management	
ISX	100	Industrial Safety	
		Quantitative Reasoning	
WMT	110	Technical Drawing And Blueprint Reading	2
WMT	120	Wood Product Manufacturing4	-
WMT	160	Wood Finishing	
WMT	199	Cooperative Education OR	2
WMT	198	Practicum(2)	
WMT	230	Introduction to Panel Processing	2
WMT	240	Cabinet Making Technology4	-
WMT	250	Furniture Technology4	-
WMT	260	Millwork Technology4	-
WMT	280	Estimating	
WPP	200	Workplace Principles	i
		Electives	
Electi	ves:		
		All WMT Courses	Į.
CAD	200	Intermediate Computer Aided Design4	-
		Total Credits 46-47	

#This course does not meet computer/digital literacy requirements.

### **Certificates**

### Cabinetmaker - 4807033019

(Offered at JFC)

Requ	Required:				
CPU	100	Introduction to Computers			
DFT	120	Computer Aided Drafting I OR4			
CAD	100	Introduction to Computer-Aided Design(3)			
MAT	110	Applied Mathematics *			
WMT	110	Technical Drawing And Blueprint Reading			
WMT	120	Wood Product Manufacturing4			
WMT	160	Wood Finishing			
WMT	230	Introduction to Panel Processing			
WMT	240	Cabinet Making Technology4			
WMT	280	Estimating			
		Electives (Technical Course List)			
Techr	ical Ele	ctives:			
		All WMT Courses			
CAD	200	Intermediate Computer Aided Design4			
		Total Credits 27-28			

 $* Curriculum\ committee\ in\ process\ of\ changing\ mathematics\ requirements.$ 

#### Furniture Maker - 4807033029

(Offered at JFC)

Requi	ired:		
CPU	100	Introduction To Computers	3
DFT	120	Computer Aided Drafting I OR4	4

CAD	100	Introduction to Computer-Aided Design	(3)
MAT	110	Applied Mathematics *	3
WMT	110	Technical Drawing And Blueprint Reading	2
WMT	120	Wood Product Manufacturing	
WMT	160	Wood Finishing	
WMT	230	Introduction To Panel Processing	
WMT	250	Furniture Technology	
WMT	280	Estimating	
		Electives (Technical Course List)	
Techn	ical Ele	ctives:	
WMT	290	Advanced Wood Processing	4
CAD	200	Intermediate Computer Aided Design	
		Total Credits	27-28

<sup>\*</sup>Curriculum committee is in process of changing mathematics requirements.

#### Millworker - 4807033039

(Offered at JFC)

Requi	red:	
CPÚ	100	Introduction To Computers
DFT	120	Computer Aided Drafting I OR4
CAD	100	Introduction to Computer-Aided Design(3)
MAT	110	Applied Mathematics *
WMT	110	Technical Drawing And Blueprint Reading
WMT	120	Wood Product Manufacturing4
WMT	200	Lumber Grading
WMT	210	Dry Kiln Operation
WMT	260	Millwork Technology4
WMT	270	Moulder/Grinder Operation
		Elective (Technical Course List)
Techn	ical Elec	ctives:
		All WMT Courses
CAD	200	Intermediate Computer Aided Design4
		Total Credits 27-28

<sup>\*</sup>Curriculum committee is in process of changing mathematics requirements.

# Workplace Essentials (formerly 21st Century Life Skills)

### Certificate

### Workplace Essentials - 3201073019

(Offered at HZC,WKC)

The Workplace Essentials Certificate is designed to prepare students with the necessary skills for career, college, and life. Students will experience active learning components that lend themselves to overall well-grounded skills necessary to function more effectively as members of an increasingly interconnected world. Students will select a certificate focus track of Basic Skills, Intercultural Knowledge, Creative and Critical Thinking, Intellectual and Practical Skills, Personal and Social Responsibility, Integrative and Applied Learning, or Community Building and Engagement.

#### **Basic Skills Track**

Students will focus on basic skills development for career and life with emphasis on work place and career principles, lifelong learning skills, and cultural topics.

#### Intercultural Knowledge Track

Students will focus on intercultural knowledge with emphasis on global communication, economics, and culture.

# **Creative and Critical Thinking Track**Students will focus on creative and critical thinking skills to enhance skill sets. Emphasis is directed at logic, creative tendencies, critical thinking, and problem solving.

#### Intellectual and Practical Skills Track

Students will focus on intellectual and practical skills with emphasis on inquiry and analysis, quantitative reasoning and information literacy, and problem solving.

### **Personal and Social Responsibility Track**

Students will focus on personal and social responsibility skills with emphasis on civic knowledge and engagement, intercultural knowledge and competence, ethical reasoning and action, and foundation skills for lifelong learning.

### **Integrative and Applied Learning Track**

Students will focus on integrative and applied learning skills with emphasis on synthesis and advanced accomplishment across general and specialized skills.

### **Community Building and Engagement Track**

Core Courses

Students will focus on community building and engagement with emphasis on service learning, community development, conservation, and culture enhancement.

		Digital Literacy Course OR IC3 Fast Track Exam OR	
		IC3 Certification	0-3
COM	181	Basic Public Speaking OR	3
COM	252	Introduction to Interpersonal Communication	
GEN	102	Foundations of Learning	3
GEN	125	Applied Meta-Thinking	
		Focused Certificate Track (listed below)	.9-19
		Total 1	18-31

### Basic Skills Track - 320107301

		(Offered at HZC,WKC)	
GEN	175	Career and Life Skills Development OR	3
WPP	200	Workplace Principles	(3)
GEN	225	Lifelong Learning Applications	3
		Cultural Studies Elective	
		Elective	3
		Total Track Credits	12

### Intercultural Knowledge Track - 320107302

		(Offered at HZC,WKC)
COM	254	Introduction to Intercultural Communications
ECO	101	Contemporary Economic Issues OR
ECO	150	Introduction to Global Economics(3)
SOC	249	Mass Media and Mass Culture OR
SOC	260	Population, Resources, and Change(3)
		Geography Course
		Total Track Credits 12

### Creative and Critical Thinking Track - 320107303

		(Offered at HZC,WKC)	
PHI	120	Introductory Logic	3
ENG	207	Creative Writing: Topic OR	3
THA	101	Introduction to Theatre OR	(3)
ACH	194	Visual Composition OR	(3)
ENG	232	Literature and Place	(3)
CS	101	Introduction to Computer Science OR	3

MAT	150	College Algebra OR	(3)
MAT	205	Mathematics for Elementary Teachers	(3)
		Total Track Credits	9

### Intellectual and Practical Skills Track - 320107304

		(Offered at HZC,WKC)	
CS	101	Introduction to Computer Science OR	3
MAT	150	College Algebra OR	(3)
MAT	205	Mathematics for Elementary Teachers	(3)
		Statistics (200 Level)	3
GEN	130	Introduction to Information Resources	3
		Total Track Credits	9

### Personal and Social Responsibility Track - 320107305

	(Offered at HZC,WKC)
120	Service Learning
101	Introduction to Journalism OR
130	Ethics OR(3)
150	Business Ethics(3)
225	Lifelong Learning Applications
	Cultural Studies Elective
	Total Track Credits 12
	101 130 150

### Integrative and Applied Learning Track - 320107306

		(Offered at HZC,WKC)	
GEN	175	Career and Life Skills Development OR	3
WPP	200	Workplace Principles	(3)
		Geography Course	3
GEN	225	Lifelong Learning Applications	3
		Technical Program Courses	6
		Total Track Credits	15

### Community Building and Engagement Track - 320107307

• • • • • • • • • • • • • • • • • • • •	
	(Offered at HZC,WKC)
120	Service Learning
140	Development of Leadership
220	The Community
120	Human Ecology OR
122	Introduction to Conservation Biology OR(3)
110	Introduction to Conservation Biology(4)
232	Literature and Place
	Heritage/Humanities (choose one from the list below) 3
	Total Track Credits 18-19
	120 140 220 120 122 110

Heritage/Humanities Electives (Chose one course from below)

FLK 276 – Folk Studies

HUM 135 – Native American Literature

HUM 140 – Latino/a Literature

HUM 202 - Appalachian Studies I

HUM 203 – Appalachian Studies II

 $HUM\ 207-American\ Seminar$ 

HIS 206 — Colonial Latin America

HIS 207 – Modern Latin America

HIS 247 - Islam and Middle East Peoples, 500-1250

HIS 248 – Islam and Middle East Peoples, 1250-Present

HIS 260 – African American History to 1865

HIS 261 - African American History 1865-Present

HIS 265 - History of Women in America

### **Zoo Animal Technology**

The Zoo Technology program prepares students for entry-level positions at zoos and related occupations. The curriculum gives students a background in writing, computer applications, communication skills, animal biology, conservation biology, applied mathematics, and basic zoo operations.

### Certificate

### Zoo Animal Technician - 2607013019

		(Offered at JFC)	
BIO	112	Introduction to Biology	3
BIO	120	Human Ecology	3
BIO	122	Introduction to Conservation Biology	3
BIO	143	Zoology with Laboratory	4
ZOO	293	Applied Experiences in Zoo Technology	3-6
MAT	110	Applied Mathematics	3
COM	181	Basic Public Speaking	3
		Total	22-25

# Associate in Fine Arts (A.F.A.) Curricula

### **Cinematic Arts**

The Associate in Fine Arts (AFA) in Cinematic Arts degree program is designed for students who plan to transfer to a four-year institution to acquire a Bachelor of Fine Arts in Cinematic Arts related fields. The embedded certificate program is designed to accommodate non-degree seeking students that wish to increase their knowledge and skills for the workplace. The program includes standard, transferable general education requirements for students seeking a higher degree. Technical courses in film history, film production techniques, cinematography (including advanced lensing theory), digital media, and writing for film are required in the core. Studio courses are offered including screenwriting, digital media design, camera/lighting, audio/music for film, acting and editing. Students will focus on the application of new skills in the production of several finished short films in a project-based learning environment.

Due to the nature of the cinematic arts, multiple ways of understanding/communicating are explored and critical competencies like creative problem solving, collaboration, time management and critical thinking are learned and practiced. Upon completion, graduates will be prepared for careers in the growing film industry in Kentucky and for employment — worldwide — in this growing medium.

The Filmmaking: Script to Screen certificate program will provide students with a hands-on, practical overview of the filmmaking process. In addition to a working knowledge of the elements of filmmaking, graduates will have a greater understanding of the collaborative process, creative problem solving, and critical thinking. Graduates will have an enhanced level of media literacy and deeper understanding of filmmaking as a communication strategy for dissemination of ideas. The curriculum supports the desire of the film industry for a stronger filmmaking workforce in Kentucky.

### Associate in Fine Arts

#### **Cinematic Arts – 5006027029**

Gene	ral Educ	cation Core Requirements	25
ENG	101	Writing I	3
ENG	102	Writing I	3
		Oral Communications	3
ENG	281	Introduction to Film	3
MAT	150	College Algebra OR higher level Quantitative Reasoning	3
		Natural Sciences with laboratory	4
		Social/Behavioral Sciences	6

Digit	al Lite	racy	0-3
A stude	ent must	pass an approved three (3) credit hour digital literacy cou	ırse
		unless	
the dig	ital liter	acy exam is successfully completed.	
Fine A	Arts/C	inematic Arts Core	18
FLM	110	Filmmaking – Treatment to Storyboard	4
FLM	120	Filmmaking – Storyboard through Production	
FLM	130	Filmmaking – Editing through Distribution	
	NOTE	: FLM 110,120 and 130 are co-requisites	
FLM	260	Cinematography	3
IMD	250	Digital Video Editing with Final Cut Pro	3
Conc	entrati	ion (Choose 18 hours from list of approved	
Ciner	natic A	Arts Electives)	18
FLM	280	Lighting/Grip/Gaffer	3
FLM	210	Screenwriting	3
FLM	290	Film Practicum with Lab	
ENG	282	International Film	3
THA	126	Fundamentals of Acting	3
THA	190	Production Practicum	1
THA	191	Performance Practicum	1
THA	260	Stage Craft	
THA	203	Acting for Film	3
ART	110	Drawing	3
IMD	115	Introduction to Graphic Diesel	3
IMD	127	Vector Design with Adobe Illustrator	
IMD	128	Raster Design with Adobe Photoshop	
IMD	228	Advanced Photoshop	
VCM	115	2-D Animation	
MUS	106	Music in Film	
MUS	120	Music Technology 1	
MUS	174	Theory for Non-music Majors	
ENG	262	Survey of Western Literature from 1660 to the Present	
ENG	264	Major Black Writers	3
Other	courses	may be selected with program coordinator permission.	
Total			61-64
		Certificate	
	Fil	Immaking – From Script to Screen – 5006023019	
		(Offered at BLC)	
FLM	110	Filmmaking: Treatment to Storyboard	4

FLM 120 Filmmaking: Storyboard through Production......4 130 Filmmaking: Editing through Distribution ......4 FLM NOTE: FLM 110, 120, and 130 are co-requisites. THA126 190 THA Production Practicum OR ...... 1 191 THA Performance Practicum .....(1) **Total Credits** 

### Theatre Arts

The Associate in Fine Arts (AFA) in Theatre degree program is designed for students who plan to transfer to a four-year institution in order to pursue a BFA in the Theatre Arts and/or acquire credentials for a career in arts-related areas. The program includes general education requirements, Theatre foundation courses in acting and stagecraft, as well as a wide variety of performance and production-related electives. Students will focus on the development of performance skills and a basic knowledge of technical theatre, while participating firsthand in fully realized theatrical productions every semester. Classes will also encourage analytical skills and critical analysis. Students will be encouraged to participate in state and regional theatre auditions and festivals with audition pieces prepared specifically with an eye toward securing professional work.

### Associate in Fine Arts

### Theatre - 5005017019

(Offered at BLC, OWC)

Gener	ral Educ	ation Core Requirements	25
Writi	ng/Acc	essing Information	
ENG	101	Writing I	3
ENG	102	Writing I	
		Oral Communications	3
		Heritage/Humanities	
		(not including THA classes)	3
		Social/Behavioral Sciences	
		Natural Sciences with laboratory	4
MA	109	College Algebra OR	3
MA	111	Contemporary Mathematics OR	
MAT	150	College Algebra OR	(3)
		Higher Level Quantitative Reasoning course	
Theat	re Core		15-18
		Computer/Digital Literacy	0-3
THA	101	Introduction to Theatre	
THA	126	Fundamentals of Acting	3
THA	226	Acting II: Scene Study (Realism)	3
THA	227	Acting III: Scene Study (Styles)	
THA	260	Stagecraft	
A studer	nt must pass	s an approved three (3) credit hour computer/digital literacy con	urse
unless th	ne compute	r competency exam is successfully completed.	
Practi	icum Co	ore	3
THA	190	Production Practicum (1) (May be repeated)	
THA	191	Performance Practicum (1) (May be repeated) to equal	3
		hours, OR	3
TA	195	Special Projects in Theatre Arts (Project Title) OR	(3)
THA	196	Summer Theatre Workshop	(3)
Conce	entratio	n (Choose 18 hours	
from	the App	roved Theatre Electives)	18
THA	127	Acting Techniques	3
THA	150	Fundamentals of Production	3
THA	200	Introduction to Dramatic Literature	3
THA	283	American Theatre	3
FLM	110	Filmmaking: Treatment through Storyboard	4
FLM	120	Filmmaking: Storyboard through Production	4
FLM	130	Filmmaking: Editing through Distribution	4
(FLM c	ourses are	co-requisites)	
MUS	192	University Chorus	1
ART	110	Drawing I	3
ENG	281	Introduction to Film	3
ENG	282	International Film Studies	
IMD	250	Digital Video Editing Final Cut	3
		Other Courses approved by program coordinator	
Sumn	nary		
Gener	ral Educ	ation Core Requirements	25–28
Theat	re Core	Requirements	15
	icum Co	-	3
Conce	entratio	n (Approved Theatre Electives)	18
Total		,	61-64

### **Visual Art**

The Associate in Fine Arts (AFA) in Visual Art degree program is designed for students who plan to transfer to a four-year institution in order to pursue a BFA in the Visual Arts and/or a career in arts-related areas requiring pre-professional credentials. The program includes general education requirements, visual arts foundation courses in drawing, design and art history, as well as a wide variety of studio art electives. Students will focus on the development of artistic skills and a visual vo-

cabulary for personal expression, while exploring both traditional and nontraditional art areas. Classes will also encourage analytical and creative problem-solving skills and experience in both verbal presentation of ideas and critical concepts. A personal portfolio of artwork will be a tangible result of a student completing this program.

### Associate in Fine Arts

### Visual Art - 5007027019

(Offered at HZC, OWC, WKC)

		(Offered at HZC, OWC, WKC)
Gene	ral Edu	acation Core Requirements
ENG	101	Writing I
ENG	102	Writing II
		Oral Communications
		Arts & Humanities
		(The course chosen to satisfy this requirement must be from a
		discipline other than the discipline in the Fine Arts Core and/
		or Concentration)
		Social/Behavioral Sciences
		Natural Sciences
		(Must include a laboratory experience for general education
		certification in the Natural Sciences category)
		Quantitative Reasoning
		Subtotal 24
		21
Fine	Arts Co	ore (Visual Art track)
ART	105	Ancient through Medieval Art History
ART	106	Renaissance through Modern Art History
ART	110	Drawing I
ART	112	2-Dimensional Design
ART	113	3-Dimensional Design
ART	210	Drawing II
		Subtotal 18
Conc	entrati	ion (Choose 18 hours
		oproved Art Studio Electives) 18
ART	211	Life Drawing
ART	220	Painting I
ART	221	Painting II
ART	240	Ceramics I
ART	241	a
ART		Ceramics II
	260	
ART	260 261	Sculpture I
ART	261	Sculpture I
ART ART	261 270	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3
ART ART ART	261 270 271	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3
ART ART ART ART	261 270 271 280	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3
ART ART ART ART ART	261 270 271 280 281	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3
ART ART ART ART ART ART	261 270 271 280 281 282	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Digital Photography II       3
ART ART ART ART ART ART ART	261 270 271 280 281 282 290	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3
ART ART ART ART ART ART ART ART	261 270 271 280 281 282 290 299	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3         Jewelry/Metals I       3
ART ART ART ART ART ART ART ART ART	261 270 271 280 281 282 290 299 231 232	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3
ART ART ART ART ART ART ART ART ART ART	261 270 271 280 281 282 290 299 231 232	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3         Jewelry/Metals I       3         Jewelry/Metals II       3
ART ART ART ART ART ART ART ART ART ART	261 270 271 280 281 282 290 299 231 232 <b>mary</b> al Educat	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3         Jewelry/Metals I       3         Jewelry/Metals II       3         tion Core Requirements       24
ART	261 270 271 280 281 282 290 299 231 232 <b>mary</b> al Educat	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3         Jewelry/Metals I       3         Jewelry/Metals II       3         tion Core Requirements       24         Requirements       18
ART	261 270 271 280 281 282 290 299 231 232 <b>mary</b> al Educat	Sculpture I       3         Sculpture II       3         Printmaking I       3         Printmaking II       3         Beginning Film Photography       3         Digital Photography I       3         Digital Photography II       3         Survival Skills for Artists       3         Directed Studies in Art       1-3         Jewelry/Metals I       3         Jewelry/Metals II       3         tion Core Requirements       24

Degree requirements: completion of minimum 60 credit hours; minimum cumulative 2.0 GPA; minimum of 15 credit hours earned at the institution awarding the degree; cultural studies course; and demonstration of computer literacy.

- 1 Courses chosen to satisfy General Education requirements must be selected from an approved list which may be found in the KCTCS catalog at http://legacy.kctcs.edu/catalog/.
- 2 A course used to fulfill one category cannot be used to fulfill another category.

Transitional courses (courses numbered 001-099) cannot be used to satisfy graduation requirements.