



**LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM**

*Changing Lives,  
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Louisiana  
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& Technical  
College System

265 South Foster Drive  
Baton Rouge, LA 70806

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[www.lctcs.edu](http://www.lctcs.edu)

**TO:** Dr. Monty Sullivan  
LCTCS President

**THROUGH:** Dr. René Cintrón *RC*  
Chief Education and Training Officer

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

**SUBJECT:** Program Requests at Northshore Technical Community College

**DATE:** 07/26/2019

**FOR BOARD ACTION:**

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

**Program Additions**

1. Career and Technical Certificate (CTC), Cybersecurity Support with an IBC in CompTIA Security+ from CompTIA (CIP 11.0901) – **5 STARS**
2. Career and Technical Certificate (CTC), Fiber Optics Support with an IBC in Certified Fiber Optic Technician from the Fiber Optic Association (CIP 11.0901) – **5 STARS**
3. Career and Technical Certificate (CTC), IT Support with an IBC in CompTIA A+ from CompTIA (CIP 11.0901) – **5 STARS**
4. Career and Technical Certificate (CTC), Linux Systems Support with an IBC in CompTIA Linux+ from CompTIA (CIP 11.0901) – **5 STARS**
5. Career and Technical Certificate (CTC), Servers Support with an IBC in CompTIA Server+ from CompTIA (CIP 11.0901) – **5 STARS**
6. Career and Technical Certificate (CTC), Cloud Computing with an IBC in Cloud Practitioner from Amazon Web Services (CIP 11.0902) – **5 STARS**
7. Career and Technical Certificate (CTC), Medical Assistant (MA) EKG with an IBC in EKG from the National Healthcareer Association (CIP 51.0801) – **3 STARS**

*SK* **APPROVED**  
8/14/19  
LCTCS BOARD OF SUPERVISORS



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8. Career and Technical Certificate (CTC), Medical Assistant (MA) Phlebotomy with an IBC in Phlebotomy from the National Healthcareer Association (CIP 51.0801) – **3 STARS**
9. Career and Technical Certificate (CTC), Emergency Medical Responder with an IBC in First Responder from the National Registry of Medical Technicians (CIP 51.0904) – **3 STARS**

**Program Modifications**

10. Technical Diploma (TD), Information Technology (CIP 11.0901) – **5 STARS**
  - a. Certificate of Technical Studies (CTS), Foundations of Information Technology (CIP 11.0901) – **5 STARS**
11. Certificate of Technical Studies (CTS), Drafting Technology (CIP 15.1301) – **4 STARS**
12. Career and Technical Certificate (CTC), PLC Helper with an IBC in NCCER Core from NCCER (CIP 46.0302) – **5 STARS**
13. Career and Technical Certificate (CTC), Brakes, Alignment, Suspension & Steering Technology with IBCs in Brakes, Alignment, Suspension & Steering in from the National Institute for Automotive Service Excellence (CIP 47.0604) – **4 STARS**
14. Career and Technical Certificate (CTC), Engine Performance & Diagnostic Tech with an IBC in Engine Performance from the National Institute for Automotive Service Excellence (CIP 47.0604) – **4 STARS**
15. Certificate of Technical Studies (CTS), Medical Assistant (CIP 51.0801) – **3 STARS**
16. Certificate of Technical Studies (CTS), Pharmacy Technician (CIP 51.0805) – **3 STARS**
17. Technical Diploma (TD), Practical Nursing (CIP 51.3901) – **4 STARS**

**Program Terminations**

18. Certificate of Technical Studies (CTS), Computer Network Specialist (CIP 11.0901) – **5 STARS**
19. Certificate of Technical Studies (CTS), Computer Support Specialist (CIP 11.0901) – **5 STARS**
20. Certificate of Technical Studies (CTS), Network Associates (CIP 11.0901) – **5 STARS**



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21. Certificate of Technical Studies (CTS), Engineering Aide II (CIP 15.1301) – 4 STARS

22. Career and Technical Certificate (CTC), Suspension and Steering Systems (CIP 47.0604) – 4 STARS

**Background:** Northshore Technical Community College is requesting to decrease clock hours of the Medical Assistant Certificate of Technical Studies (CTS) by 25 and alter 20 of the 30 credit hours to better align with Certified Clinical Medical Assistant (CCMA) and fit within the new parts of term scheduling. Some courses have been eliminated and other shorter courses combined to create two new Career and Technical Certificate (CTC) exit points.

Northshore Technical Community College is requesting to increase the clock hours by 45 and credit hours by 3 in the Pharmacy Technician CTS to shorten time to completion for students.

Northshore Technical Community College is requesting to decrease clock hours by 30 and keep credit hours the same in the Practical Nursing Technical Diploma (TD) as courses were restructured to separate out clinical experience courses from theory courses and to combine some of the course for improved parts of term.

Northshore Technical Community College is requesting to decrease the number of credit hours from 47 to 45 in the Information Technology TD to incorporate additional IBCs and CTC exit points thereby terminating three CTS exit points in IT.

Northshore Technical Community College is requesting to revise all courses within the 30 credit hours of the Drafting Technology CTS to better align with industry needs while terminating one exit point.

**Fiscal Impact:** As some programs have been in place for several years, only changes in the credential designations are being requested. The administrative structure and allocation of departmental funds will be unchanged, unless otherwise noted.

**History of Prior Actions:** There is a history of modifying curriculum to meet student and industry needs.

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

  
Approved for Recommendation to the Board  
Dr. Monty Sullivan

8-14-19  
Date

# PROGRAM: INFORMATION TECHNOLOGY CROSSWALK

## SEMESTER 01

COURSE	TITLE	CR	HR	COURSE SUBSTITUTION (Deleted Courses)
INTE 1050	INTRO TO INFORMATION TECHNOLOGY	3	45	INTE 1000: INTRODUCTION TO INFORMATION TECHNOLOGY* INTE 1100: IT ESSENTIALS: PC HARDWARE AND SOFTWARE* INTE 1110: IT ESSENTIALS: PC HARDWARE AND SOFTWARE LAB
INTE 1150	PC HARDWARE & SOFTWARE LAB	3	75	
INTE 1210	INTRO TO PROGRAMMING	3	75	
INTE 2150	NETWORKING 1	3	75	INTE 2110: NETWORK FUNDAMENTALS
INTE 2830	CABLING INFRASTRUCTURE	3	75	
<b>TOTALS</b>		<b>15</b>	<b>345</b>	<b>* REQUIRES BOTH COURSES</b>

## SEMESTER 02

COURSE	TITLE	CR	HR	COURSE SUBSTITUTION (Deleted Courses)
INTE 2015	FUNDAMENTALS OF CLIENT/SERVER	3	75	INTE 1200: OPERATING SYSTEMS* INTE 2010: INTRODUCTION TO CLIENT/SERVER NETWORKING* INTE 2120: ROUTING PROTOCOLS AND CONCEPTS INTE 1800: INTRODUCTION TO UNIX/LINUX INTE 1900: WEB PAGE DESIGN
INTE 2250	NETWORKING 2	3	75	
INTE 1850	INTRO TO LINUX	3	75	
INTE 1950	INTRO TO CLOUD COMPUTING	3	75	
INTE 2545	NETWORK SECURITY: ETHICAL HACKING	3	75	
<b>TOTALS</b>		<b>30</b>	<b>720</b>	<b>* REQUIRES BOTH COURSES</b>

## SEMESTER 03

COURSE	TITLE	CR	HR	COURSE SUBSTITUTION (Deleted Courses)
INTE 2115	ADVANCED CLIENT/SERVER	3	75	INTE 2020: SERVER NETWORK INFRASTRUCTURE* INTE 2030: SERVER ADMINISTRATION* INTE 2130: LAN SWITCHING AND WIRELESS
INTE 2350	ADVANCED NETWORKING	3	75	
INTE 2950	ADVANCED CLOUD COMPUTING	3	75	
INTE 2975	INTERNSHIP / JOB SEEKIG SKILLS	3	135	INTE 2902: INTERNSHIP* JOBS 2450: JOB SEEKING SKILLS*
	PROGRAM ELECTIVES	3	75	
<b>TOTALS</b>		<b>45</b>	<b>1,655</b>	<b>* REQUIRES BOTH COURSES</b>

## Revised Drafting Technology CTS

No.	Title	CH	Course Description	Previous Courses (Deleted)
1101	Drafting Fundamentals	3	Visualization & spatial abilities are fundamental to understanding geometric relationships and concepts: projection, Multiview, 2d-3d switch, rotations.	DRFT 1110- Drafting Fundamentals
1102	AutoCAD	3	Creating computer drawings using various AutoCAD tools, properties, functions and operations to make drawings used across various drafting fields. Drawing, editing, plotting and file management.	CADD 1210- Basic CADD
1103	Geometric Drafting	3	Presenting and analyzing geometric principles and applying them to the creation of drawings. Constructing, editing and extracting information	DRFT 1120- Geom. Const DRFT 1130- Pictorial Drawing DRFT 1215- Auxiliary Views
1104	Technical Drafting	3	Creating section views from 3d drawings. Annotating drawings following industry standard practices using CAD	DRFT 1145- Section Drawing DRFT 1160- Drafting Math
1105	Materials & Manufacturing Technologies	3	Overview of materials properties and ways to optimize them towards advancing product value. Understand process parameters, equipment specs and tooling requirements as part of the manufacturing process. Experiment w/ addit. manuf.	DRFT 2310- Intro to Manuf. DRFT 2340- Adv. Manuf.
1201	Architectural Drafting	3	In-depth review of the main components of residential construction: layout, site/floor planning, elevations, roof, foundations, framing, details, MEP, structural, civil and environmental considerations as well as building codes. Present elements of commercial architecture, including project thereof.	DRAFT- 2320 Intro to Architecture DRFT-2350 Advanced Architecture
1202	Mechanical Design	3	AutoCAD, rapid prototyping, CAM, CIM, virtual reality, advanced multi-view drawing, auxiliary views, advanced dimensioning/GDT, production/working drawings, basic schematic drafting, threads/fasteners, the design process and project documentation.	DRFT 1161- Dimensioning DRFT 1230- Fasteners
1203	Parametric Modeling	3	The creation of parametric models utilizing design software, including working with constrained geometry, creating and documenting assemblies, project work-flow, appropriate file management and part modeling techniques. Produce complete project documentation as per industry standards, including engineering change orders/change requests.	CADD 1215- Intermediate CADD CADD 1220- Advanced CADD
1204	Pipe Drafting	3	Types, uses and drafting of pipes, fittings, flanges, valves, equipment and structural systems using the latest industry standards and specifications. Students will use industry standards to create schematic, plan, elevation, isometric, spool, and 3-D drawings of various process piping components/systems	DRFT 2330- Intro to Piping DRFT 2360- Advanced Piping
1205	Capstone Project	3	A personally-designed, independently conducted group activity which enables the students to further their knowledge/skill in one or more of the course topics which that is especially interesting or beneficial to the student. The project represents a significant portion of the final grade for the course. The student will be required to present their CAPSTONE Project so it is necessary to create a computer-based presentation for end of the semester	DRFT 2310-40 Intro/Adv Man. DRFT 2320-50 Intro/Adv Arch. DRFT 2330-60 Intro/Adv Pipe
<b>Drafting Technology CTS (CIP 15.1301)</b>				<b>30 Credit Hours</b>

**NORTHSHORE TECHNICAL COMMUNITY COLLEGE**  
**Final Pharmacy Technician Curriculum Changes for Cohorts Admitted Beginning Fall 2019**

Old CURRICULUM				New Approved CURRICULUM			
Course #	Course Title	Clock Hours	Credit Hours	Course #	Course Title	Clock Hours	Credit Hours
<b>1st Semester</b>							
HPHM 1200	PHARMACY TECH FUNDAMENTALS	45	3	HPHM 1200	PHARMACY TECH FUNDAMENTALS	45	3
HPHM 1400	PHARMACY MATH & DOSAGE CALCULATIONS	45	2	HPHM 1405	FUNDAMENTALS OF PHARMACY TECHNICIAN MATH (New Course – replaces HPHM 1400 with additional clock hours for math)	60	2
HPHM 1500	FUNDAMENTALS OF PHARMACY LAB	90	2	HPHM 1505	PHARMACY TECHNICIAN FUNDAMENTALS LAB (New Course – Replaces HPHM 1500 w/ Decreased Clock Hours)	50	2
HPHM 1503	PHARMACOLOGY FOR PHARMACY TECHNICIANS I	45	2	HPHM 1510	INTRODUCTION TO PHARMACOLOGY (New Course – Replaces HPHM 1503 w/ Increased Clock Hours)	55	2
HMDT 1170	MEDICAL TERMINOLOGY	15	1	HMDT 1170	MEDICAL TERMINOLOGY	15	1
CPTR 1000	INTRODUCTION TO COMPUTERS	45	2		(Moved Computer Course to Semester 2)		
				CSRV 1000	CUSTOMER SERVICE (New Required Course)	45	3
					<b>SEMESTER TOTAL =</b>	<b>270</b>	<b>13</b>
<b>2nd Semester</b>							
HPHM 1300	PHARMACY LAW AND ETHICS	45	3		(Moved Law & Ethics Course to Semester 3)		
HPHM 1513	PHARMACOLOGY FOR PHARMACY TECHNICIANS II	45	2	HPHM 1515	ADVANCED PHARMACOLOGY (New Course – Replaces HPHM 1513 w/ Increased Clock Hours)	55	2
HPHM 1600	STERILE COMPOUNDING LAB	90	2		(Moved SC Content to Semester 3 – Advanced Lab)		
HPHM 2000	PROFESSIONALISM FOR PHARMACY TECH.	30	2		(Moved Professionalism Course to Semester 3)		
				HPHM 2025	ENTRY LEVEL EXTERNSHIP (New Course – Replaces Previous Externship I & II Courses)	300	5
				CPTR 1000	INTRODUCTION TO COMPUTERS	45	2
				SPCH 1015	PUBLIC SPEAKING (New Required Course)	45	3
					<b>SEMESTER TOTAL =</b>	<b>445</b>	<b>12</b>
<b>3rd Semester</b>							
HPHM 2012	PHARMACY CLINICAL EXTERNSHIP I*	180	4	HPHM 2035	ADVANCED LEVEL EXTERNSHIP (New Course – Replaces Previous Externship III Course)	300	5
HPHM 2022	PHARMACY CLINICAL EXTERNSHIP II	225	5	HPHM 1300	PHARMACY LAW AND ETHICS	45	3
				HPHM 1605	PHARMACY TECHNICIAN ADVANCED LEVEL LAB (New Course – Includes HPHM 1600 / SC Content and Decreased Clock Hours)	50	2
				HPHM 2000	PROFESSIONALISM FOR PHARMACY TECHNICIANS	30	2
				HPHM 2991	SPECIAL PROJECTS 1 (New Required Course)	30	1
					<b>SEMESTER TOTAL =</b>	<b>455</b>	<b>13</b>
<b>4th Semester</b>							
HPHM 2023	PHARMACY CLINICAL EXTERNSHIP III	225	5	<b>No 4th Semester in New Curriculum</b>			
				(4th semester is eliminated)			
					<b>SEMESTER TOTAL =</b>	<b>1170</b>	<b>38</b>
					<b>PROGRAM TOTAL =</b>	<b>1170</b>	<b>38</b>

# Traditional - Practical Nursing Program

Old Curriculum					New Approved Curriculum - effective Summer 2019				
Course No.	Course Name	Clock Hours (Theory)	Clock hours (Clinical/Lab)	Credit Hours	Course No.	Course Name	Clock Hours (Theory)	Clock hours (Clinical/Lab)	Credit Hours
<b>Required Courses:</b>					<b>Required Courses:</b>				
HNUR 1211	Nursing Fundamentals I	45	30	4	HNUR 2110	PN Foundations and Perspectives	120		6
HNUR 1411	Nursing Fundamentals II	30	60	3	HNUR 2111	PN Foundations Lab w/ Geriatric Clinical		140	4
HNUR 1270	Practical Nursing Perspectives	45		2	HMDT 1170	Medical Terminology (Online)	15		1
HNUR 1212	Geriatric Clinical I		45	1	HNUR 2000	Anatomy & Physiology w/ Nutrition for Practical Nurses	100		4
HNUR 1301	Anatomy & Physiology w Med Term	90		3	HNUR 2500	Pharmacology and IV Therapy for PN	75	30	3
HNUR 1320	Nutritional Aspects	30		2	HNUR 2210	Practical Nursing I (MSI & MH)	120		6
HNUR 1361	Pharmacology Applications	75		2	HNUR 2211	Practical Nursing I Clinical		205	4
HNUR 2611	IV Therapy	15	15	1	HNUR 2310	Practical Nursing II (MSII & OB)	120		6
HNUR 2523	Mental Illness/Psychiatric Nursing	30	30	2	HNUR 2311	Practical Nursing II Clinical		205	4
HNUR 2113	Medical Surgical I	95	180	8	HNUR 2410	Practical Nursing III (MSIII & Peds)	120		6
HNUR 2713	Obstetrics	30	30	2	HNUR 2411	Practical Nursing III Clinical		205	4
HNUR 2123	Medical Surgical II	95	180	8	HNUR 2813	PN Leadership & Management	30	30	2
HNUR 2723	Pediatrics	30	30	2	<b>Totals</b>		<b>700</b>	<b>815</b>	<b>50</b>
HNUR 2133	Medical/Surgical III	95	180	8	<b>Required Elective:</b>				
HNUR 2813	PN Leadership & Management	30	30	2	HNUR 2991	Special Projects I	30		1
<b>Totals</b>		<b>735</b>	<b>810</b>	<b>50</b>	<b>Pre-reqs/Additional Electives:</b>				
<b>Required Elective:</b>					<b>Pre-reqs/Additional Electives:</b>				
HNUR 2991	Special Projects I	30		1	ORNT 1000	Student College/Career Success Seminar	15		1
<b>Pre-reqs/Additional Electives:</b>					<b>Pre-reqs/Additional Electives:</b>				
ORNT 1000	Student College/Career Success Seminar	15		1	CPTR 1000	Introduction to Computers	45		2
CPTR 1000	Introduction to Computers	45		2	AHSC 1000	Allied Health Science - (Eliminated)	60		3
AHSC 1000	Allied Health Science	60		3	MATH 1160	Medical Math (Revised - Effective)	30		2
MATH 1160	Medical Math	60		3	MATH 1175	Algebra for Allied Health Sciences (prep for QRAS-243)	30		2
ZAHR 1000	Allied Health Reading	60		0	ZAHR 1000	Allied Health Reading	60		0
DVEN 0091	Intermediate Composition I	60		3	DVEN 0091	Intermediate Composition I	60		3

Approved Medical Assistant Curriculum

Semester 1

Current Curriculum					Proposed Curriculum					
Course Prefix	Course Number	Course Title	Credit Hours	Clock Hours	Course Prefix	Course Number	Course Title	Credit Hours	Clock Hours	Course Description
HMDT	1170	Medical Terminology	1	15	HMDT	1170	Medical Terminology* (ALL ONLINE)	1	15	Analyzing and combining prefixes, root words, and suffixes to spell, use and pronounce medical terminology correctly and recognize medical terms. Medical abbreviations are included.
HCOR	1205	Body Structure & Function	2	90	HCOR	1205	Basic Anatomy Structure and Function	2	45	This course focuses on the identification of the organs of the human body including the location and structure of organs and organ systems. Emphasis is placed on the functions of the organs and organ systems, and associated diseases and disorders of organs and organ systems. (This is a new course and will be taken by both MA and PCT Students)
ENGL	1030	Business English*	3	45	ENGL	1030	Business English*	3	45	This course is a concentrated and intensive study of English grammar and usage as applied to business documents and applications. <b>MOVED to 1<sup>st</sup> semester – in 2<sup>nd</sup> semester in old curriculum</b>
MAST	1110	Intro to Medical Assisting	1	15	MAST	1125	Medical Assisting I	5	195	This course is an introduction to the medical assistant profession, including the history, medical law and ethics, verbal and written communication techniques, and the medical office environment. The course includes appointment scheduling, telephone techniques, patient reception, and medical office facilities, equipment and supplies. Introduction to Professionalism. (Pearson Textbook Chapters 1,2,3,5,6,7,8,9,10, 11, and 58 with Intro to 59)
MAST	1210	Administration Procedures I	4	60						
MAST	1120	Law & Ethics	2	30						
MAST	1130	Medical Assistant Applications	2	45						Eliminating MAST 1130 from new curriculum



MAST	1220	Clinical Procedures I	1	90	MAST	1225	Clinical Medical Assisting I	5	195	This course is an introduction to clinical medical assisting skills including infection control, vital signs, assisting with physical examinations, assisting with care of eye, ear, nose and throat, assisting with lifespan specialties (pediatrics and geriatrics), the clinical laboratory, microbiology, urinalysis, phlebotomy, hematology, math for pharmacology, pharmacology, administering medications, patient education, nutrition and mental health. (Pearson Textbook Chapters 33, 34, 35, 38, 39, 40, 43, 44, 45, 46, 47, 52, 53, 54, 55, 56, 57)
MAST	2140	Pharmacology for MA	2	60						
			18	390			Total Semester 1 =	16	495	30.93 credit to Clock Ratio

### Semester 2

Current Curriculum					Proposed Curriculum					
Course Prefix	Course Number	Course Title	Credit Hours	Clock Hours	Course Prefix	Course Number	Course Title	Credit Hours	Clock Hours	Course Description
CPTR	1000	Introduction to Computers*	2	45	CPTR	1000	Introduction to Computers*	2	45	An introductory study of computer system components, operating system environments. Internet concepts, and security issues. Includes a hands-on study emphasizing computer hardware and various operating systems features. <b>MOVED to 2nd semester – in 1<sup>st</sup> semester in old curriculum</b>
MAST	2130	Clinical Procedures II	1	90	MAST	1135	Medical Assisting II	4	120	This course focuses on the use of computers in the medical office, the medical record, diagnosis coding, patient billing and collections, banking and practice finances and medical office management. (Pearson Textbook Chapters 12,13,14,15,16,17,18 and 19)
MAST	1230	Insurance and Medical Coding	2	45						
MAST	2210	Clinical Procedures III	1	90	MAST	1235	Clinical Medical Assisting II	4	150	This course is a continuation of medical assisting clinical skills, and includes assisting with medical specialties, assisting with reproductive specialties, assisting with minor surgery, assisting with medical emergencies and Emergency Preparedness, radiology and diagnostic testing, electrocardiography, pulmonary function, physical therapy and rehabilitation. (Pearson Textbook Chapters 36, 37, 41, 42, 48, 49, 50, & 51)
MAST	2110	Medical Transcription	3	75	Eliminating MAST 2110 from Curriculum					
HGOR	1160	Professionalism for Health-Care Providers	1	15	MAST	2225	Advanced Professionalism and Externship for Medical Assistants	4	145	The course focuses on identifying and performing skills necessary to secure employment in the health care industry and make immediate and future decisions regarding job choices and educational growth. The course also includes 100 clock hours of preceptor clinical experience in a variety of health care agencies

MAAST	2222	Medical-Assistant Externship	2	180					allowing practical application of medical assistant principals, theories and skills. Students will prepare for and take a nationally recognized medical assistant certification exam as part of this course. (Pearson Textbook Chapter 59)
		Total Semester 2 =	12	540			14	460	32.85 credit to clock hours ratio
		Total Program =	30	930			30	955	31.83 Credit to clock hours ratio

Revised: 3/27/2019

Course	Title	Lecture Clock Total	Lab Clock Total	Total Clock	Credit
HNUR 2110	PN Foundations & Perspectives	120	0	120	6
HNUR 2111	PN Foundations Lab w/Geriatric Clinical	0	140	140	4
HMDT 1170	Medical Terminology	15	0	15	1
HNUR 2000	Anatomy & Physiology w/Nutrition for Practical Nurses	100	0	100	4
<b>Semester 1 Total</b>				<b>375</b>	<b>15</b>

HNUR 2500	Pharmacology & IV Therapy for PN	75	30	105	3
HNUR 2210	Practical Nursing I (MSI & MH)	120	0	120	6
HNUR 2211	Practical Nursing I Clinical	0	205	205	4
<b>Semester 2 Total</b>				<b>550</b>	<b>13</b>

HNUR 2310	Practical Nursing II (MSII & OB)	120	0	120	6
HNUR 2311	Practical Nursing III Clinical	0	205	205	4
<b>Semester 3 (Summer) Total</b>				<b>740</b>	<b>10</b>

HNUR 2410	Practical Nursing III (MSIII & Peds)	120	0	120	6
HNUR 2411	Practical Nursing III (Clinical)	0	205	205	4
HNUR 2813	PN Leadership & Management	30	30	60	2
HNUR 2991	Special Projects I	30	0	30	1
<b>Semester 4 Total</b>				<b>740</b>	<b>13</b>

<b>Program Total</b>		<b>1545</b>		<b>51</b>
<b>Clock to Credit</b>		<b>30.29411765</b>		
<b>Hour Ratio</b>		<b>30.29411765</b>		

Course	Title	Lecture Clock Total	Lab Clock Total	Total Clock	Credit
HPHM 1200	PHARMACY TECH FUNDAMENTALS	45	0	45	3
HPHM 1405	FUNDAMENTALS OF PHARMACY TECHNICIAN MATH (New Course – replaces HPHM 1400 with additional clock hours for math)	50	0	50	2
HPHM 1505	PHARMACY TECHNICIAN FUNDAMENTALS LAB (New Course – Replaces HPHM 1500 w/ Decreased Clock Hours)	0	60	60	2
HPHM 1510	INTRODUCTION TO PHARMACOLOGY (New Course – Replaces HPHM 1503 w/ Increased Clock Hours)	50	0	50	2
HMDT 1170	MEDICAL TERMINOLOGY	15	0	15	1
CSRV 1000	CUSTOMER SERVICE (New Required Course)	45	0	45	3
				<b>Semester 1 Total</b>	<b>13</b>

HPHM 1515	ADVANCED PHARMACOLOGY (New Course – Replaces HPHM 1513 w/ Increased Clock Hours)	50	0	50	2
HPHM 2025	ENTRY LEVEL EXTERNSHIP (New Course – Replaces Previous Externship I & II Courses)	0	300	300	5
CPTR 1000	INTRODUCTION TO COMPUTERS	45	0	45	2
SPCH 1015	PUBLIC SPEAKING (New Required Course)	45	0	45	3
				<b>Semester 2 Total</b>	<b>12</b>

HPHM 2035	ADVANCED LEVEL EXTERNSHIP (New Course – Replaces Previous Externship III Course)	0	300	300	5
HPHM 1300	PHARMACY LAW AND ETHICS	45	0	45	3
HPHM 1605	PHARMACY TECHNICIAN ADVANCED LEVEL LAB (New Course – Includes HPHM 1600 / SC Content and Decreased Clock Hours)	0	60	60	2
HPHM 2000	PROFESSIONALISM FOR PHARMACY TECHNICIANS	30	0	30	2
HPHM 2991	SPECIAL PROJECTS 1 (New Required Course)	30	0	30	1
				<b>Semester 3 Total</b>	<b>13</b>

Program Total		1170	38
	Clock to Credit Hour Ratio		
		30.78947368	

Course	Title	Lecture Clock Total	Lab Clock Total	Total Clock	Credit
HMDT 1170	MEDICAL TERMINOLOGY	15	0	15	1
HCOR 1205	Basic Anatomy Structure & Function	45	0	45	2
ENGL 1030	Business English	45	0	45	3
MAST 1125	Medical Assisting I	195	0	195	5
MAST 1225	Clinical Medical Assisting I	0	195	195	5
				<b>Semester 1 Total</b>	<b>16</b>

CPTR 1000	Introduction to Computers	45	0	45	2
MAST 1135	Medical Assisting II	120	0	120	4
MAST 1235	Clinical Medical Assisting II	0	150	150	4
MAST 2225	Advanced Professionalism & Externship for Medical Assistants	0	180	180	4
				<b>Semester 2 Total</b>	<b>14</b>

<b>Program Total</b>		<b>990</b>		<b>30</b>
<b>Clock to Credit Hour Ratio</b>			<b>33</b>	