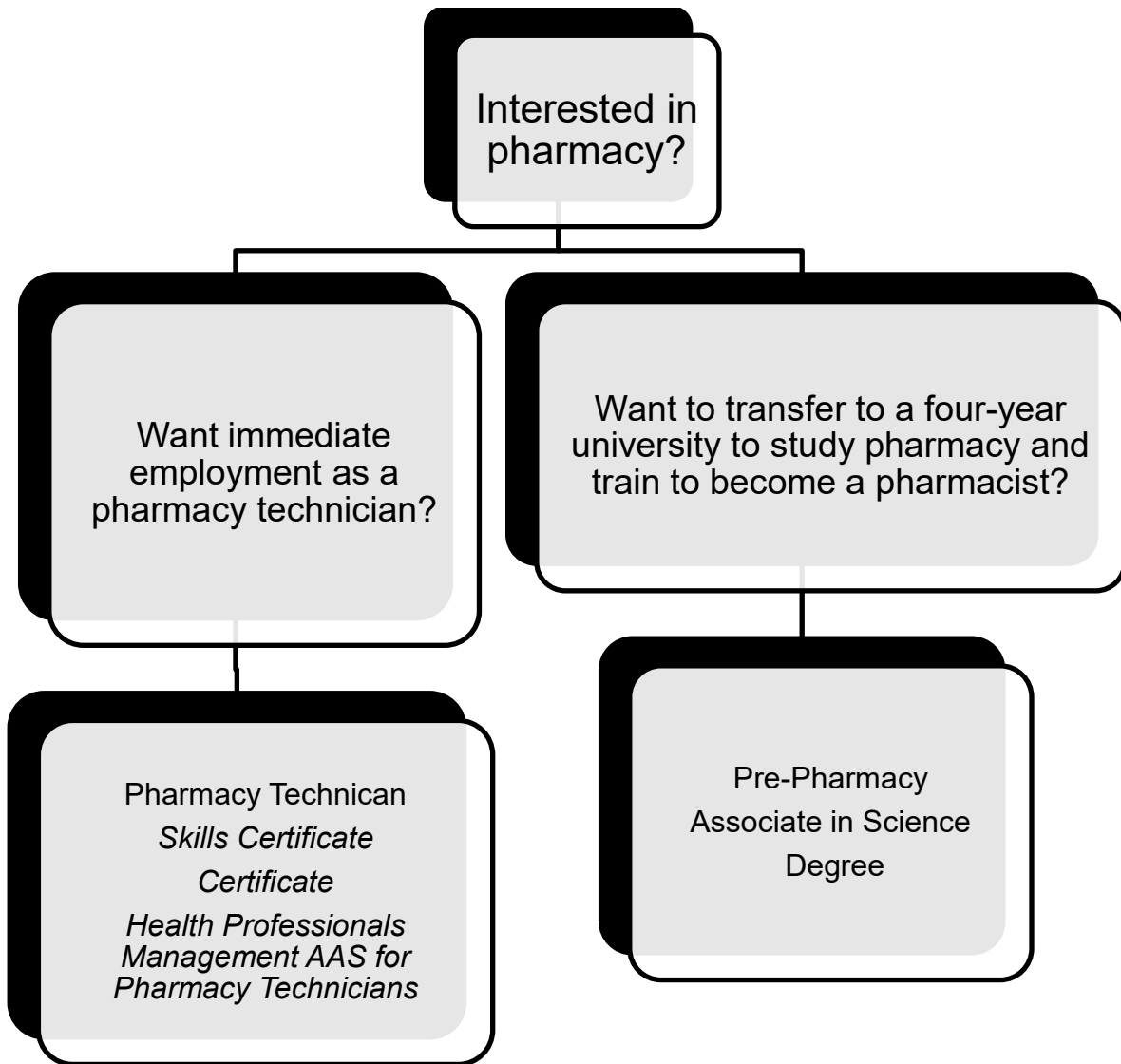


Pharmacy



Credentials

Pharmacy Technician Skills Certificate	16 cr.
Pharmacy Technician Certificate	29 cr.
Pharmacy Technician Certificate - <i>with current Pharmacy Technician Certification</i>	29 cr.
Health Professionals Management AAS for Pharmacy Technicians	63-67 cr.
Pre-Pharmacy Associate in Science Transfer Degree	74 cr.

Major Description

The practice of Pharmacy is focused on ensuring the safe and effective use of medications through a pharmacy team comprised of both **Pharmacists** and **Pharmacy Technicians**. **Pharmacists** use their professional judgment as a vital part of the health care team by providing input and expertise into monitoring patient care therapies. **Pharmacy Technicians** work in various practice settings under the direct supervision of pharmacists, and assist pharmacists in preparing and dispensing oral, topical, intravenous and other prescription medications to patients or other health care professionals. Educational options at Schoolcraft College in the professional field of pharmacy include:

- **Pharmacy Technician Skills Certificate** (Entry-level Pharmacy Technician): An entry-level Pharmacy Technician receives training in a single practice setting. In a community pharmacy setting, such as drug stores, or an institutional setting, such as a hospital, pharmacy technicians will assist pharmacists in entering patient data into a computerized database, as well as preparing and dispensing medications. Additional responsibilities of a pharmacy technician in a community practice setting may include billing for medications, understanding and applying insurance requirements for billing of patient medications or supplies, interacting with patients and working as an integral part of the pharmacy team. Additional responsibilities of a pharmacy technician working in an institutional practice setting may include making medications that are administered to patients intravenously. The Pharmacy Technician Skills Certificate will allow the students to select coursework for either the community or institutional practice setting. This coursework will prepare the student to work in their chosen pharmacy environment through a combination of classroom learning, simulation lab training, and hands-on experience. After completing the course requirements of the Skills Certificate program, the student will be eligible and prepared to take the Pharmacy Technician Certification Board (PTCB) exam, that if successfully passed, will earn the student national Certification as a pharmacy technician. After earning Certification, the student is then eligible to apply for licensure as a pharmacy technician in the State of Michigan.

To enroll in the Pharmacy Technician Skills Certificate program, students will need to meet admission requirements as described in the Admissions Packet for this program.

- **Pharmacy Technician Certificate** (Advanced-level Pharmacy Technician): An advanced-level Pharmacy Technician receives expanded training for any practice setting and beginning, managerial skills for supervisory positions. This program will build upon those skills learned in the Skills Certificate program and prepare students to work as a pharmacy technician in any practice setting, including a community, hospital, compounding, or specialty pharmacy. Students who complete this program will have completed the first requirement of eligibility to become recognized as a PTCB Compounded Sterile Preparation Technician. To become recognized as a PTCB Compounded Sterile Preparation Technician, completion of (or enrollment in) a PTCB-recognized sterile compounding training program and one year of full-time continuous compounded sterile preparation (CSP) work experience, is required. These advanced-level practice settings require additional skills that will be taught in this program through a combination of classroom learning, simulation lab training, and hands-on experience. Students who are currently licensed as a pharmacy technician, may be eligible to apply their work experience toward the completion of this certificate.

To enroll in the Pharmacy Technician Certificate program, students will need to meet admission requirements as described in the Admissions Packet for this program.

- **Associate in Health Professionals Management for Pharmacy Technicians:** Any student wishing to pursue an Associate Degree can apply all credits from the Pharmacy Technician Skills Certificate or Certificate programs toward an Associate in Health Professionals Management for Pharmacy Technicians degree. This degree may be desirable for students seeking to expand their knowledge and skills, and potential lead to Pharmacy Technician supervisory roles. Students may be eligible to earn credits for professional experiences and previously completed courses.

- **Associate of Science in Pre-pharmacy:** This Pre-pharmacy Associate's Degree is comprised of courses that are required for a student to apply to a college of pharmacy; a majority of Pre-pharmacy courses in this degree program are designed to be transferrable to a university pharmacy program. Students should consult with an academic advisor to ensure that their Schoolcraft courses will transfer to the desired university pharmacy program. Pharmacists can find positions in a variety of settings, such as community pharmacies, hospitals, clinics, long-term care facilities, and the armed services. They can also find employment in academic, research, pharmaceutical manufacturers, and public health organizations.
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Pharmacy Technician Skills Certificate

Schoolcraft program code # CRT.00349

The **Pharmacy Technician Skills Certificate** (entry-level pharmacy technician) program is designed to prepare students interested in starting a career as a licensed pharmacy technician in either a community (drug store) pharmacy or institutional (hospital) practice setting. Classroom education is combined with direct application of principles in a simulation pharmacy lab. Through simulated case studies, pharmacy technician students will learn how to assess prescription orders as well as how to process and prepare these orders using order entry systems and medication dispensing techniques. Basic level math skills will be reviewed and utilized for calculating accurate medication dosing and other calculations required as part of the practice setting. Students will learn, first-hand, those skills required for the practice setting in which they wish to work. The program will combine simulation lab practice with actual practical experience that will provide hands-on training.

Students who satisfactorily complete the program requirements with a minimum of a 2.5 grade in each class will qualify for a certificate of program completion.

This program requires specific academic proficiencies or requirements to be admitted to the program. Contact the Admissions and Welcome Center at 734-462-4426 or admissions@schoolcraft.edu to complete an application.

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

SAMPLE SCHEDULE OF COURSES

First Year - Fall Semester

Course #	Course Title	Credits
PHT 102	Pharmacy Practice and Healthcare	4
PHT 104	Pharmacology for Pharmacy Technicians	3
<i>Select one set</i>		9
	PHT 114 - Community Pharmacy Simulation Lab AND PHT 116 - Community Pharmacy Practicals	
	OR	
	PHT 124 - Hospital Pharmacy Simulation Lab AND PHT 126 - Hospital Pharmacy Practicals	
	Total Credits: 16	

PROGRAM TOTAL 16 CREDITS

Pharmacy Technician Certificate

Schoolcraft program code # 1YC.00249

The **Pharmacy Technician Certificate** (advanced-level pharmacy technician) program is designed to prepare pharmacy technicians to work in any practice setting. Pharmacy Technicians with an advanced skill set can work alongside pharmacists in any practice setting, including drug stores, hospitals, compounding, specialty, and other medical settings to help prepare and distribute all medication types, including compounded medications, such as intravenous, chemotherapy or nuclear medications, to patients and other health care professionals. In this advanced practice program, technicians will build on the knowledge gained in the Skills Certificate program and learn advanced skills, such as screening prescription orders for accuracy and completeness, checking the work of other technicians before a final check by a pharmacist, or reconciling medications for patients admitted into a complex medical environment.

There are two ways to complete the Pharmacy Technician Certificate:

1. The traditional route of completing all courses.
2. Individuals who are currently certified as a Pharmacy Technician may be able to apply up to 16 credits toward the completion of the Pharmacy Technician Certificate. Contact the Pharmacy Technician Program Coordinator for further details.

Students who satisfactorily complete the program requirements with a minimum of a 2.5 grade in each class will qualify for a certificate of program completion.

This program requires specific academic proficiencies or requirements to be admitted to the program. Contact the Admissions and Welcome Center at 734-462-4426 or admissions@schoolcraft.edu to complete an application.

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

SAMPLE SCHEDULE OF COURSES

First Year - Fall Semester

Course #	Course Title	Credits
PHT 102	Pharmacy Practice and Healthcare	4
PHT 104	Pharmacology for Pharmacy Technicians	3
<i>Select one set</i>		9
	PHT 114 - Community Pharmacy Simulation Lab AND PHT 116 - Community Pharmacy Practicals	
	OR	
	PHT 124 - Hospital Pharmacy Simulation Lab AND PHT 126 - Hospital Pharmacy Practicals	
	Total Credits: 16	

Pharmacy Technician Certificate (continued)

First Year – Winter Semester

Course #	Course Title	Credits
PHT 122	Advanced Pharmacy Practice	4
<i>Select one set</i>	<i>(Not previously taken)</i>	9
	PHT 114 - Community Pharmacy Simulation Lab AND PHT 116 - Community Pharmacy Practicals	
	OR	
	PHT 124 - Hospital Pharmacy Simulation Lab AND PHT 126 - Hospital Pharmacy Practicals	
	Total Credits: 13	

PROGRAM TOTAL 29 CREDITS

Pharmacy Technician Certificate – with current *Pharmacy Technician Certification*

This certificate program is designed to allow students who possess current Pharmacy Technician Certification to apply up to 16 credits of their prior learning experiences toward the credits needed for the Pharmacy Technician Certificate. Contact the Pharmacy Technician Program Coordinator for further details.

The following courses will be accepted as completed based on current Pharmacy Technician Certification (16 credits):

- PHT 102 – Pharmacy Practice and Healthcare (4 credits)
- PHT 104 – Pharmacology for Pharmacy Technicians (3 credits)
- PHT 114 – Community Pharmacy Simulation Lab and PHT 116 – Community Pharmacy Practicals OR PHT 124 – Hospital Pharmacy Simulation Lab and PHT 126 – Hospital Pharmacy Practicals (9 credits)

Remaining required program courses (13 credits):

- PHT 122 – Advanced Pharmacy Practice (4 credits)
- PHT 114 – Community Pharmacy Simulation Lab and PHT 116 – Community Pharmacy Practicals OR PHT 124 – Hospital Pharmacy Simulation Lab and PHT 126 – Hospital Pharmacy Practicals (9 credits)

Health Professionals Management AAS for Pharmacy Technicians

Schoolcraft program code # AAS.00229

The **Health Professionals Management AAS for Pharmacy Technicians** is designed to prepare health professionals to expand their knowledge and skill base potentially leading to a supervisory and/or training position. Additional credits, based on professional experience and other courses completed, may be applied on a case-by-case basis, not to exceed 45 credits total. Contact the appropriate instructional administrator for further details.

There are two ways to complete the Health Professionals Management AAS:

1. Individuals who hold certification as a Pharmacy Technician may be able to apply credits of their prior learning experiences toward the credits needed toward the completion of this AAS degree. Contact the Pharmacy Technician Program Coordinator for further details.
2. The traditional route of completing all courses.

Health Professionals Management AAS - with Prior Learning Experience

Students who have successfully passed the Pharmacy Technician Certification Board (PTCB) exam or the Exam for the Certification of Pharmacy Technicians (ExCPT) qualify for credit for prior learning and should contact the Program Coordinator or appropriate instructional administrator for more information.

The following courses will be accepted as completed based on current Pharmacy Technician Certification:

- HIT 104 – Medical Terminology (4 credits)
- PHT 102 – Pharmacy Practice and Healthcare (4 credits)
- PHT 104 – Pharmacology for Pharmacy Technicians (3 credits)

The following courses may be accepted as completed based on current Pharmacy Technician Certification:

- PHT 114 – Community Pharmacy Simulation Lab and PHT 116 – Community Pharmacy Practicals and/or PHT 124 – Hospital Pharmacy Simulation Lab and PHT 126 – Hospital Pharmacy Practicals (9 credits)
- Additional credits may be evaluated on a case-by-case basis

Remaining program required technical courses (26 credits):

- CIS 120 – Software Applications (3 credits)
- HIT 120 – Foundations of Health Information Management Technology (3 credits)
- HIT 130 – Legal Aspects of Health Information (3 credits)
- BUS 101 – Introduction to Business (3 credits)
- BUS 220 – Supervision (3 credits)
- BUS 230 – Human Resource Management (3 credits)
- Electives – Select from list (minimum 9 credits)

Health Professionals Management AAS for Pharmacy Technicians (continued)

Remaining program required general education courses (minimum 16 credits):

- English Communication (6 credits)
 - Recommended: ENG 101 – English Composition 1 (3 credits)
 - Recommended: ENG 102 – English Composition 2 (3 credits) – or – ENG 106 – Business English (3 credits)
- Mathematics (3 – 4 credits)
- Social Science (3 credits)
 - Recommended: PSYCH 153 – Human Relations (3 credits)
- Humanities (1 credit)
 - Recommended: HUM 106 – Introduction to Art and Music (1 credit)
- Science (3-5 credits)

Health Professionals Management AAS – Traditional Path (no Prior Learning)

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them. Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

SAMPLE SCHEDULE OF COURSES

First Year - Fall Semester

Course #	Course Title	Credits
PHT 102	Pharmacy Practice and Healthcare	4
PHT 104	Pharmacology for Pharmacy Technicians	3
<i>Select one set</i>		9
	PHT 114 - Community Pharmacy Simulation Lab AND PHT 116 - Community Pharmacy Practicals	
	OR	
	PHT 124 - Hospital Pharmacy Simulation Lab AND PHT 126 - Hospital Pharmacy Practicals	
	Total Credits: 16	

Health Professionals Management AAS for Pharmacy Technicians (continued)

First Year – Winter Semester

Course #	Course Title	Credits
English Communication	Select first within a set of General Education English Communication courses* Recommend: ENG 101 – English Composition 1	3
Mathematics	Select General Education Mathematics course*	3 - 4
Social Science	Select General Education Social Science course* Recommend: PSYCH 153 – Human Relations	3 - 4
Humanities	Select General Education Humanities course* Recommend: HUM 106 – Introduction to Art and Music	1
HIT 104	Medical Terminology	4
	Total Credits: 14 - 16	

First Year – Spring/Summer Semester

Course #	Course Title	Credits
BUS 101	Introduction to Business	3
CIS 120	Software Applications	3
	Total Credits: 6	

Second Year – Fall Semester

Course #	Course Title	Credits
HIT 120	Foundations of Health Information Management Technology	3
	Electives – Select any combination from the list below (minimum 9 credits)	9
	Total Credits: 12	

Second Year - Winter Semester

Course #	Course Title	Credits
English Communication	Select second within a set of General Education English Communication courses* Recommend: ENG 102 – Composition 2 or ENG 106 – Business English	3
HIT 130	Legal Aspects of Health Information	3
BUS 220	Supervision	3
BUS 230	Human Resource Management	3
Science	Select General Education Science course*	3-5
	Total Credits: 15 - 17	

Health Professionals Management AAS for Pharmacy Technicians (continued)

Electives

Course #	Course Title	Credits
	ACCT 103 – Introduction to Accounting OR ACCT 201 – Principles of Accounting 1	4
	PHT 114 - Community Pharmacy Simulation Lab AND PHT 116 - Community Pharmacy Practicals (if not previously taken) OR PHT 124 - Hospital Pharmacy Simulation Lab AND PHT 126 - Hospital Pharmacy Practicals (if not previously taken)	9
	PHT 122 – Advanced Pharmacy Practice	4
	CIS 180 – Spreadsheet Applications	3
	CIS 215 – Advanced Software Applications	3
	MA 134 – Medical Insurance Coding	3
	MA 140 – Medical Office Procedures	3
	MA 155 – Medical Insurance Billing	3
	BUS 217 – Business Management	3

TOTAL CREDITS 63-67

* Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor.

Pre-Pharmacy AS Degree

Schoolcraft program code # AS.00403

The pre-pharmacy transfer program is designed for students interested in a transferable degree that provides appropriate science content and competencies that will help them as they pursue further study in the field of pharmacy. Students will be introduced to the roles, job opportunities, and some of the timely and important issues in the field of pharmacy.

The pre-pharmacy program provides general education courses at the freshman and sophomore level, with an emphasis on the sciences, in preparation for admission to a university doctoral pharmacy program. Admission to university doctoral pharmacy programs is highly competitive and the transferring institution must be consulted for additional pre-admission requirements.

This program outline provides the framework for a pre-pharmacy program, but it does not represent a final academic plan for any specific four-year college or university. Students need to be aware that many health profession educational programs require background screening. Students who satisfactorily complete all college and program requirements qualify for an Associate in Science degree.

Not all courses are offered each semester. Students should work with an academic advisor to develop a schedule that will work for them.

Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor. Number of credits may vary depending on the course selection.

Completion of the pre-pharmacy program does not guarantee admission into a transfer institution's pharmacy program.

SAMPLE SCHEDULE OF COURSES

First Year - Fall Semester

Course #	Course Title	Credits
PHARM 101	Introduction to Pharmacy	3
MATH 150	Calculus with Analytic Geometry 1	5
BIOL 120	Principles of Biology 1	5
CHEM 111	General Chemistry 1	4
	Total Credits: 17	

First Year - Winter Semester

Course #	Course Title	Credits
ENG 101	English Composition 1	3
BIOL 130	Principles of Biology 2	5
CHEM 117	General Chemistry 2 and Qualitative Analysis	5
Social Science*	Select General Education Social Science course	3
	Total Credits: 16	

Pre-Pharmacy AS Degree (continued)

First Year - Spring Session

Course #	Course Title	Credits
Humanities*	Select General Education Humanities course	3
Social Science*	Select General Education Social Science course	3
	Total Credits: 6	

Second Year - Fall Semester

Course #	Course Title	Credits
CHEM 213	Organic Chemistry 1	5
BIOL 237	Principles of Human Anatomy and Physiology 1	4
ENG 102	English Composition 2	3
PHYS 181	General Physics 1	4
	Total Credits: 16	

Second Year - Winter Semester

Course #	Course Title	Credits
CHEM 214	Organic Chemistry 2	5
BIOL 238	Principles of Human Anatomy and Physiology 2	4
PHYS 182	General Physics 2	4
Humanities*	Select General Education Humanities course	1
	Total Credits: 14	

Second Year - Spring Session

Course #	Course Title	Credits
BIOL 243	Microbiology	4
PHARM 201	Capstone - Portfolio Preparation	1
	Total Credits: 5	

PROGRAM TOTAL 74 CREDITS