

## PHARMACY

### Credentials

|                                 |           |
|---------------------------------|-----------|
| Pharmacy Technician Certificate | 31 cr.    |
| Pre-Pharmacy AS Degree          | 76-80 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 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 include:

- The Pharmacy Technician Certificate program will prepare students to work as a pharmacy technician in a number of practice settings, including a community, hospital, compounding or specialty pharmacy. Completion of the Pharmacy Technician Certificate program will prepare students to take the Pharmacy Technician Certificate Board (PTCB), which will be offered through the PTCB as part of this program. Students who successfully complete this certificate program and pass the PTCB exam are eligible to apply for licensure as a pharmacy technician in the state of Michigan. Application for licensure will also be included as part of the final course of this program.
- Schoolcraft's Associate of Science in Pre-pharmacy 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 or counselor 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.

### Pharmacy Technician Certificate

Schoolcraft program code # 1YC.00234

The Pharmacy Technician Certificate program will prepare students to work as a pharmacy technician in a number of practice settings, including a community, hospital, compounding or specialty pharmacy. Completion of the Pharmacy Technician Certificate program will prepare students to take the Pharmacy Technician Certificate Board (PTCB), which will be offered through the PTCB as part of this program. Students who successfully complete this certificate program and pass the PTCB exam are eligible to apply for licensure as a pharmacy technician in the state of Michigan. Application for licensure will also be included as part of the final course of this program.

Schoolcraft's Associate of Science in Pre-pharmacy 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 or counselor 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.

A pharmacy technician works alongside pharmacists in many professional practice settings, including institutional (hospitals, long-term care, compounding, and specialty), community (drug store, grocery store, department store), and other medical settings to help prepare and distribute medications to patients and other health care professionals. In some pharmacy practice settings, technicians screen prescription orders for accuracy and completeness, and/or check the work of other technicians before a final check by a pharmacist. To accurately prepare prescriptions, pharmacy technicians may perform calculations to ensure the correct dose, and then process the prescription using a medication management and patient record system. In other practice settings, pharmacy technicians may prepare intravenous medications in a sterile work environment, ensuring medication sterility for direct injection into a patient.

With advanced training or education, a pharmacy technician may be promoted to supervisory roles and oversee or train other pharmacy technicians. Other pharmacy technicians may specialize in a specific area of pharmacy including oncology, nuclear pharmacy, or compounding pharmacy. The skills needed to effectively operate in many of these practice settings are included as part of the curriculum for this certificate program.

Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

Courses must be taken in sequence and a minimum grade of 2.5 is required for progression to the next course. Students are admitted once a year, at the beginning of the fall semester

**This program requires a special admissions process. Contact the Admissions and Welcome Center at 734-462-4426 or [admissions@schoolcraft.edu](mailto:admissions@schoolcraft.edu) to complete an application.**

### SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

First Year—Winter Semester

|         |   |           |         |                                       |           |
|---------|---|-----------|---------|---------------------------------------|-----------|
| PHT 101 | Pharmacy & the Health Care System           | 3         | PHT 140 | Pharmacology for Pharmacy Technicians | 3         |
| HIT 104 | Medical Terminology                         | 4         | PHT 145 | Pharmacy Systems – Techniques         | 3         |
| PHT 110 | Pharmaceutical Calculations                 | 3         | PHT 175 | Pharmacy Technician Practicals 1      | 4         |
| PHT 125 | Pharmacy Systems – Applications & Processes | 3         | ENG 100 | Communication Skills                  | 3         |
|         | <b>Total Credits</b>                        | <b>13</b> |         | <b>Total Credits</b>                  | <b>13</b> |

### Pharmacy Technician Certificate (continued)

#### First Year—Spring Session

|         |  |          |
|---------|--|----------|
| PHT 195 | Pharmacy Technician Practicals 2                         | 4        |
| PHT 199 | Pharmacy Technician Certification Board Exam Preparation | 1        |
|         | <b>Total Credits</b>                                     | <b>5</b> |

#### PROGRAM TOTAL 31 CREDITS

Not all courses are offered each semester. Students should work with an academic advisor or counselor 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 or counselor. Number of credits may vary depending on the course selection.

### 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.

#### SAMPLE SCHEDULE OF COURSES

##### First Year—Fall Semester

##### First Year—Winter Semester

|           |                                   |           |                 |  |              |
|-----------|-----------------------------------|-----------|-----------------|--|--------------|
| PHARM 101 | Introduction to Pharmacy          | 3         | ENG 101         | English Composition 1                          | 3            |
| MATH 150  | Calculus with Analytic Geometry 1 | 5         | BIOL 130        | Principles of Biology 2                        | 5            |
| BIOL 120  | Principles of Biology 1           | 5         | CHEM 117        | General Chemistry 2 & Qualitative Analysis     | 5            |
| CHEM 111  | General Chemistry 1               | 4         | Social Science* | Select General Education Social Science course | 3-4          |
|           | <b>Total Credits</b>              | <b>17</b> |                 | <b>Total Credits</b>                           | <b>16-17</b> |

##### First Year—Spring Session

|                 |  |            |
|-----------------|--|------------|
| Humanities*     | Select General Education Humanities course     | 3-4        |
| Social Science* | Select General Education Social Science course | 3-4        |
|                 | <b>Total Credits</b>                           | <b>6-8</b> |

##### Second Year—Fall Semester

##### Second Year—Winter Semester

|          |  |           |             |  |              |
|----------|--|-----------|-------------|--|--------------|
| CHEM 213 | Organic Chemistry 1                        | 5         | CHEM 214    | Organic Chemistry 2                        | 5            |
| BIOL 237 | Principles of Human Anatomy & Physiology 1 | 4         | BIOL 238    | Principles of Human Anatomy & Physiology 2 | 4            |
| ENG 102  | English Composition 2                      | 3         | PHYS 182    | General Physics 2                          | 4            |
| PHYS 181 | General Physics 1                          | 4         | Humanities* | Select General Education Humanities course | 3-4          |
|          | <b>Total Credits</b>                       | <b>16</b> |             | <b>Total Credits</b>                       | <b>16-17</b> |

##### Second Year—Spring Session

|           |  |          |
|-----------|--|----------|
| BIOL 243  | Microbiology   | 4        |
| PHARM 201 | Capstone—Portfolio Preparation   | 1        |
|           | Select Social Science or Humanities courses if needed to fulfill MACRAO* |          |
|           | <b>Total Credits</b>   | <b>5</b> |

#### PROGRAM TOTAL 76-80 CREDITS

\* MACRAO transfer agreement requires a minimum of 8 credits in more than one discipline for both Social Science and Humanities distribution areas. When completing MACRAO, 80 credits will be the minimum program total required.

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

Not all courses are offered each semester. Students should work with an academic advisor or counselor 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 or counselor. Number of credits may vary depending on the course selection.

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*It is the policy of Schoolcraft college that no person shall, on the basis of race, religion, color, gender, age, marital status, disability, sexual orientation, and/or national origin, be subjected to discrimination during or be excluded from participating in or be denied the benefits of any program or activity or in employment.*



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