Manchester University Pharmacy Program Bulletin 2021 – 2022

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Disclaimer: The policies and curriculum set forth in this Bulletin are in effect for the academic year 2021–2022. The policies and curriculum described in this Bulletin are subject to change at any time as determined by Manchester University’s faculty and administration.
Manchester University

Mission
Manchester University respects the infinite worth of every individual and graduates persons of ability and conviction who draw upon their education and faith to lead principled, productive, and compassionate lives that improve the human condition.

Values Statement
As a primarily undergraduate, residential, liberal arts community rooted in the tradition of the Church of the Brethren, Manchester University values:

- Learning, because high academic expectations in an environment combining liberal arts and professional preparation equip graduates to live healthy, productive, and principled lives;
- Faith, because our diverse faiths call us to make the world a kinder and better place, establish justice, build peace amid strife, and model lives of *agape* (selfless love), *tikkun olam* (repairing a broken world), and *salam* (peace);
- Service, because committing self in service to others connects faith with action and abilities with convictions;
- Integrity, because honesty and trust are the foundations of teaching and learning, enriching, enduring relationships, and strong communities;
- Diversity, because understanding differences develops respect for ethnic, cultural, and religious pluralism; an international consciousness; and an appreciation for the infinite worth of every person; and
- Community, because a positive community sharpens self-identity, promotes acceptance of the demands of responsible citizenship, and transforms conflict into mutual respect.

Accreditation
Manchester University is accredited by The Higher Learning Commission and is a member of the North Central Association of Colleges and Schools. The full accreditation statement may be found at [https://www.manchester.edu/about-manchester/institutional-effectiveness/accreditation](https://www.manchester.edu/about-manchester/institutional-effectiveness/accreditation).

Non-Discrimination
Manchester University is committed to non-discrimination in campus life. The University does not discriminate on the basis of national origin, ancestry, race, color, age, sex, gender identity or expression, sexual orientation, familial status, religion, disability, or veteran status in admissions or any area of campus life, including its educational programs, scholarships and loan awards, residence life programs, athletic programs, extracurricular programs, promotion and tenure policies and practices, and alumni affairs.

Manchester University is committed to carry out the positions of Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, which provide for accessibility of University programs to the physically disabled.

Pharmacy Program

Doctor of Pharmacy Program
The Manchester University Pharmacy Program is a four-year doctoral program requiring at least two years of pre-pharmacy coursework. The program is an integrated educational environment involving the disciplines of pharmaceutical sciences and pharmacy practice. The program will consist of three years of didactic study, including Introductory Pharmacy Practice Experiences (IPPE) interwoven into the didactic curriculum sequence, and one year of Advanced Pharmacy Practice Experiences (APPE) involving six required and four elective rotations. Upon graduation, students will be required to take and pass the North American Pharmacist
Licensure Examination (NAPLEX) and the Multistate Pharmacy Jurisprudence Examination (MPJE) in order to obtain licensure.

Mission
To cultivate graduates of ability and conviction to provide patient-centered care guided by respect for the infinite worth of individuals and dedicated to improve communities by advancing pharmacy education, practice, service and scholarship.

Vision Statement
To improve the human condition through service.

Values
- We have a deep commitment to integrity.
- We respect the infinite worth of every individual. Diversity and inclusivity are vital for growth and understanding.
- We seek excellence in all that we do. We are accepting of new ideas. We create and innovate without fear.
- We foster personal and professional transformation. It is through learning that we become our better selves.
- We serve for the betterment of others.
- We seek and value collaboration and teamwork.

Accreditation
Manchester University’s Doctor of Pharmacy program is fully accredited with the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503; 312/644-3575; FAX 312/664-4652; website www.acpe-accredit.org.

Admission

Application
The Pharmacy Program will accept completed applications between mid-summer and late spring of each year. The complete application is housed through the Pharmacy College Application Service (PharmCAS). The PharmCAS application and Manchester University Pharmacy Program school information page may be found at the following website: www.PharmCAS.org.

Admissions Process
Admission to the Manchester University Pharmacy Program is limited and competitive. Approximately 60 new students are admitted each year. For this reason, achieving the minimum prerequisite subject and grade criteria does not guarantee admission. Students should begin the application process one year before their anticipated enrollment in the Manchester University Pharmacy Program.

The Pharmacy Program annual admission cycle is as follows:
- July – PharmCAS opens and interested candidates may access the online application
- September to June – Interview days held
- May/June – Pharmacy Program application (PharmCAS) deadline
- May/June – Final Admissions decisions made, waitlist established
- August – Orientation and Pharmacy Program classes begin

The Pharmacy Program uses a rolling admissions process. Application evaluations begin after the PharmCAS application is submitted. Completed admission files are forwarded to the Admissions committee and faculty for review. Qualified candidates are invited for an on-campus, or virtual, interview. Interview days will be held
to continue the evaluation of candidates. Within two weeks of the completed interview, each candidate receives an admission status (accept, committee hold, or denial).

**Manchester University Students and the Pharmacy Program Admissions Process**

Students who complete the pre-pharmacy program at Manchester University with a cumulative GPA of at least 3.3 will be guaranteed an interview for the Doctor of Pharmacy program. Students with strong records who meet the preferred minimum cumulative and prerequisite GPA requirements of 2.5 will still be considered for admission; however, these students are not guaranteed an interview. An Early Assurance program exists for incoming first year students at Manchester with a cumulative high school GPA of at least 3.5. Early Assurance leads to a reserved seat in the Pharmacy Program class for students who maintain at least a 3.0 cumulative GPA at Manchester and who complete the admissions process and meet other admission requirements.

**International Students and the Pharmacy Program Admissions Process**

The Manchester University Pharmacy Program does consider international students who have completed all prerequisite coursework at an accredited institution. These applicants must meet all other minimum admissions requirements, as well as successful passing of the TOEFL or IELTS exam for students whose primary language of instruction is not English.

**Non-Discrimination in the Pharmacy Program Admissions Process**

The Manchester University Pharmacy Program is committed to non-discrimination in the admissions process. The University does not discriminate on the basis of national origin, ancestry, race, color, age, sex, gender identity or expression, sexual orientation, familial status, religion, disability, or veteran status in admissions including its admission decisions, scholarships, or loan awards.

**Degree Requirements**

To earn the Doctor of Pharmacy degree, students must:

1. Complete all required courses, and the required number of elective courses, in the curriculum with a grade of C or better (or P);
2. Complete all community service outreach and co-curricular requirements;
3. Pass all required competency assessments.

**Manchester University Pharmacy Program Curriculum, Implemented Fall 2020**

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Manchester University Pharmacy Program Legacy Curriculum – Applies to the Class of 2021, 2022 and 2023

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**TOTAL** 149

IPPE: Introductory Pharmacy Practice Experiences have 2 weeks (80 hours) of rotation time during January. Students return to their practice site once per week for 4 hours throughout the spring semester. The introductory pharmacy practice experience service (IPPE Service) course will be in a student’s P3 year of the pharmacy program IPPE service hours are required to meet the minimum number of clinical hours to become a licensed pharmacist in Indiana. The hours are designated as a progression requirement that must be completed prior to advancement to the next year of the academic program.

*IPPE Community: Introductory Pharmacy Practice Experiences have 2 weeks (80 hours) of rotation time during January. Students return to their practice site once per week for 4 hours throughout the spring semester.

**IPPE Institutional: Institutional Introductory Pharmacy Practice Experiences have 4 weeks (160 hours) of rotation time in either January or June.

***IPT: Integrated Pharmacotherapy, taught in block format.

****Electives: 5 total credit hours of elective didactic coursework are required.

*****APPE: Advanced Pharmacy Practice Experiences are 4 weeks in duration. There are 10 rotations: 6 required experiences and 4 elective rotations. Each student must take a minimum of two core rotations (PHRM 610, 620, 630, 640) which are precepted by full-time Manchester University faculty members. At least 2 of the 4 elective rotations must be inpatient care.

Some rotations are outside of the Fort Wayne area. Travel and/or lodging outside of Fort Wayne may be required at the student’s expense.

******PHRM 401 and PHRM 501 were discontinued as part of the course of study prior to fall 2020.
**Track Programs**

Manchester University Pharmacy Program combines a set of courses and experiences through which students develop advanced competency in a specific area. These specialized tracks allow students to demonstrate to a potential employer or post-graduate training program that they have skill and experience beyond the expectation of a Pharm.D. graduate.

Track programs offered:

- Residency
- Leadership in Pharmacy Practice
- Pharmaceutical Sciences Research

**Residency Track**

**Certificate Description**

The Residency Track is designed to give motivated students the opportunity to expand their knowledge and skills related to direct patient care. This track program will provide two options for patient care focus – acute care and ambulatory care - and it is up to the student to decide which one to pursue. It is intended to reinforce, build upon, and expand the application of topics covered throughout the required Doctor of Pharmacy curriculum at Manchester University College of Pharmacy. The goal of the program is for participants to obtain and excel in a postgraduate year 1 (PGY1) pharmacy residency and beyond.

**Track Leadership**

<table>
<thead>
<tr>
<th>Track Director</th>
<th>Ambulatory Care Focus Coordinator</th>
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</thead>
<tbody>
<tr>
<td>Robert D. Beckett, PharmD, BCPS</td>
<td>Andrea Mekonnen, PharmD, BCACP</td>
</tr>
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<td>Associate Professor of Pharmacy Practice</td>
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<td>Director of the Drug Information Center</td>
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</tbody>
</table>

The track director will coordinate the application process, verify satisfactory completion of the program, and directs the residency boot camp. The coordinators will assist students with meeting requirements of the program, track students’ progress in meeting requirements for the track program, and assist the director, as needed.

**Track Outcomes**

Students participating in the certificate program will be able to:

1. Demonstrate an expanded knowledge base on providing pharmaceutical care for hospitalized or ambulatory patients.
2. Critically evaluate patient cases and intervene to optimize their pharmaceutical care.
3. Successfully manage their time to complete a longitudinal clinical research or quality improvement project.
Benefits and Rationale
Students completing the certificate can expect to benefit by 1) expanding their knowledge base in topics in acute care or ambulatory care related topics 2) expanding their critical thinking skills 3) developing their clinical skills, and 4) refining their time and project management abilities. The track program is primarily intended for students with significant interest in completing post-graduate training. The track program is comprised of four main components:

- Didactic coursework: Students will complete pre-specified elective courses
- Experiential education: Students will apply their knowledge in pre-specified APPE rotations. These may be required by the Doctor of Pharmacy program or electives.
- Residency recruitment preparation: Students will participate in workshops intended to prepare them to pursue a residency position.
- Clinical research: Students will participate in an original investigation or quality improvement project focused on caring for ambulatory patients.

Obtaining a PGY1 residency position in US has become very competitive. This program is designed to provide track participants with the necessary guidance, experiences, and core knowledge to succeed in obtaining and excelling in a PGY1 residency.

Admission Requirements
To achieve the Residency Track designation upon graduation, the student is responsible for demonstrating proof of completion of all track requirements. It is the responsibility of the student to make sure they meet all requirements and submit proper documentation of each requirement to the track coordinator. There is no limit to the number of students who can complete the Residency Track. The residency track faculty will help facilitate track requirements, if needed.

The residency track allows students to choose from two areas of focus – acute care and ambulatory care. Each student must submit a letter of intent and curriculum vitae (CV) during their P3 year indicating they are working towards the track program, and which focus they would like to pursue. The letter of intent is to make sure students have the necessary preliminary requirements and to assist in the coordination of and selection of appropriate APPEs. A letter of intent and CV must be submitted in order to achieve the Residency Track designation at graduation.

The letter of intent and CV is due: **October 20, 2021** to track coordinator and respective focus liaison

The following items must be included in the letter of intent:

- Designate which focus of the Residency Track the student wishes to complete
- Describe why the student wishes to complete the Residency Track

Required Program Experiences
Successful completion of the Residency Track program requires successful completion of the following experiences:

- All required core curriculum as required by the Manchester University College of Pharmacy Doctor of Pharmacy program
- Maintain enrollment in good standing throughout the duration at Manchester University College of Pharmacy, Natural & Health Sciences in the Doctor of Pharmacy degree program
### Academics
- Maintain a 3.2 or higher GPA with all grades a C/P or higher upon graduation

### Learning About Residencies
- Attend at minimum two residency or post-graduate training-focused information sessions

<table>
<thead>
<tr>
<th>Focus Area Elective Courses</th>
<th>Ambulatory Care Focus</th>
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<tbody>
<tr>
<td>PHRM 576 (Critical Care/Infectious Diseases Therapeutics, 2 credits, Spring P3)</td>
<td>PHRM 571 (Ambulatory Care Pharmacy, 2 credits, Spring P3)</td>
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</table>

<table>
<thead>
<tr>
<th>Required Electives Courses</th>
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<tbody>
<tr>
<td>Enroll in PHRM 595 (Postgraduate Residency Training, 1 credit, Fall P3)</td>
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<tr>
<td>Enroll in PHRM 482 (Independent Research, 1 credit, Spring P3)</td>
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<table>
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<tr>
<th>Drug Information</th>
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<tbody>
<tr>
<td>Choose one of the following:</td>
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<tr>
<td>1. Enroll in PHRM 589 (Applications of Drug Literature, 1 credit, Fall P3)</td>
</tr>
<tr>
<td>2. A drug information APPE rotation (4 credit hours, 4-week APPE rotation)</td>
</tr>
</tbody>
</table>

### Research
- Conduct a clinical research project individually or in a small group of two or three students. The deliverables are to:
  1. Complete CITI training in accordance with the requirements of the institution where the IRB for the project will be submitted
  2. Complete IRB or necessary institution research paperwork, as needed
  3. Present a poster at a local or national meeting

### APPE*
- Three acute care APPE rotations, one each in of the following:
  1. Internal medicine
  2. Critical care
  3. Infectious diseases (Three 4 credit hours, 4-week APPE rotation)
- Three ambulatory care APPEs (Three 4 credit hour, 4-week APPE rotation)
- At least one rotation must have a chronic disease state collaborative practice agreement
- Participate in Residency Boot Camp
- Attend a regional and/or the ASHP MCM residency showcase

*Requires an elective APPE rotation

### Additional Details about requirements:

A longitudinal clinical research or quality performance improvement project.

- It is the responsibility of the students to complete this requirement either individually or in a small group of two to three students to conduct a research project. In addition to identifying the group, students should identify a research mentor and work with them to develop the project. The track coordinator and liaison can help facilitate the identification of possible mentors, but it is the responsibility of the student to follow through on the implementation and coordination of the project.
- During PHRM 482 (Independent Research Elective) students will complete CITI training, conduct background research on the subject being studied, complete a formal presentation on the background literature, and complete necessary IRB or institution research paperwork, as needed.
- The research mentor should be someone who is able to guide the students through the research project experience during the P3 and P4 year and be responsible for mentoring and assessing successful completion of the project.
- The project must be submitted for dissemination as a podium or poster presentation at a local, regional and/or national conference OR to a peer-reviewed scientific publication.

Attendance at Residency Boot Camp is required during the P3 Spring semester and P4 year of the curriculum.
• Workshop topics will vary based upon needs of track participants but may include writing a cover letter, ASHP Midyear preparation, residency match processes, interview skills, research methods and statistics, networking opportunities with residency program directors, etc.
• Students should be prepared to attend workshops that may occur outside normal business hours (i.e., during evenings or weekends).

Program Completion Documentation
At the end of the P4 academic year, applicants who have completed all necessary requirements for achieving the Residency Track program at graduation must submit the following documents to the track coordinator:

1. Unofficial transcript documenting GPA and all required and elective didactic courses taken along with all 4th year APPE rotation
2. Documentation of presentation of research at local, regional, or national conference, completed CITI training, and IRB or institution research paperwork, if required.
3. Documentation of attendance of regional or national residency showcase
4. Appropriate sign-in sheets for Residency Boot Camp and residency informational meetings

Certificate Assessment
The success of the certificate and need for modification will be determined using the following methods:

• Number/percentage of students applying for, matching with, and/or successfully scrambling for a residency will be recorded and tracked.
• A survey will be sent to all certificate program participants at the end of each academic year to assess student perceptions of the program, including areas to be improved or expanded, as well as an assessment of certificate faculty.
• At the end of the P4 year, each student will complete an exit interview with course coordinators describing the experience and further suggestions.

Assessment results will be collected and reviewed by certificate coordinators and faculty who will decide if any changes are needed to the certificate program. Additionally, pertinent comments and suggestions will also be shared with faculty outside of the certificate program who may be offering a didactic elective course which constitutes an elective choice in the program.

Leadership in Pharmacy Practice Track

Description
This track is designed to assist students in building their leadership skills. Students will examine their personal philosophies, innate characteristics, and the way they interact with others and their world. Students will engage in real world leadership experiences that provide them with growth opportunities and prepare them for the changing environment of health care upon graduation.

Track Faculty 2021-2022

<table>
<thead>
<tr>
<th>Raylene Rospond</th>
<th>Ryan Ades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate Dean of Clinical Affairs and Outreach Professor of Pharmacy Practice</td>
<td>Assistant Director of Experiential Education Assistant Professor of Pharmacy Practice</td>
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<tr>
<td>Office: 243</td>
<td>Office: 127B</td>
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<tr>
<td>Phone: 260-470-2653</td>
<td>Phone: 260-470-4075</td>
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<tr>
<td><a href="mailto:rmospond@manchester.edu">rmospond@manchester.edu</a></td>
<td><a href="mailto:rades@manchester.edu">rades@manchester.edu</a></td>
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</tbody>
</table>
Outcomes

Students completing the program will be able to:

1. Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth. [C3, F2]
2. Demonstrate responsibility for creating and achieving shared goals, regardless of position. [D1]
3. Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals. [F2]
4. Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society. [C1]

Benefits and Rationale

Our required curriculum provides exposure to basic leadership skills over four years. The experiences in this track program will build on those in order to deepen and strengthen students’ ability to lead others. Students completing this track will be well prepared to assume future leadership roles within a variety of organizations. They will be aware of their personal strengths and attributes and use this awareness to lead in their own way. Students will explore different ways of communicating with others in order to achieve shared goals. Through knowing themselves as well as their colleagues, they will be able to inspire others to achieve their best performance.

Admission Requirements

Students must satisfy the following criteria to be considered for admission to the Leadership track:

- Current enrollment in good standing at the Manchester University College of Pharmacy in the Doctor of Pharmacy degree program in the second professional year.
- Successful completion of all required coursework through the spring semester of the second professional year.

Interested students must submit the following application materials:

- Current curriculum vitae
- Cover letter describing interest in participating in the certificate program, professional goals, and the reason(s) the candidate merits consideration for the track program

The following selection criteria will be used by track coordinators to determine which students will be offered admission to the program:

- Completeness and content of application materials
- Compatibility of the applicants’ reasons for interest in the program and professional goals with the goals of the program

Applicants will be notified no later than October 20th regarding status of their application.
Required Program Experiences
Completion of the track program requires completion of the following experiences:

- All required core curriculum as required by the Manchester University College of Pharmacy Doctor of Pharmacy curriculum
- Meet the requirement of a minimum of 5 elective credit hours to complete the Pharm.D. program. This will require at least one other elective in addition to the three leadership elective courses below.
- The following elective didactic courses:
  - PHRM 596 – Leadership for Pharmacists (2 credit hours; Fall P3)
  - PHRM 597 – Leadership: People & Change (2 credit hours; Spring P3)
- Two APPE rotations with significant leadership or management experience
  - One of these rotations must be focused on working with a leader in any setting.
  - The second rotation could be with another leader at a different site or could be in any other practice area and involve some type of leadership project completed for that site.
- A longitudinal leadership project completed during the APPE year. This project could be either research-based or be implemented practically at a partner health care site or the College.
  - The project will be identified either through track coordinators or by student suggestion and coordinator approval. Students may work in groups at the discretion of the course coordinators.
  - Participants will be assigned a track course faculty member to serve as their mentor. This individual will guide them through the research project experience and be responsible for mentoring and assessing successful completion of the project.
  - The project must be submitted for either:
    - dissemination as a podium or poster presentation at a local, regional and/or national conference or a peer-reviewed scientific publication; OR
    - consideration for implementation in an organization the student has worked with during his or her time in the track program

Student Assessment

<table>
<thead>
<tr>
<th>Track Outcome</th>
<th>Assessment Strategy</th>
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<tbody>
<tr>
<td>Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.</td>
<td>Self-reflections and evaluations on required experiences.</td>
</tr>
<tr>
<td>Demonstrate responsibility for creating and achieving shared goals, regardless of the position.</td>
<td>Completion of a leadership project with real world value.</td>
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<tr>
<td>Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.</td>
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</tr>
<tr>
<td>Exhibit behaviors and values that is consistent with the trust given to the profession by patients, other healthcare providers, and society.</td>
<td>Successful completion of the leadership/management APPE elective rotations.</td>
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</table>
Pharmaceutical Sciences Research Track

Description
The pharmaceutical sciences research track is designed to give motivated students the opportunity to expand their laboratory knowledge and/or research skills. It is intended to expose students to the types of research that could be done as a PharmD and to improve critical thinking and problem-solving ability.

Outcomes
Students participating in the track will be able to:

1. Demonstrate an expanded knowledge base in research methodologies and techniques.
2. Propose original research questions.
3. Critically read and evaluate primary research literature and apply it to their research project.
4. Successfully manage their time to complete a research project.
5. Gain experiences to increase competitiveness for positions when applying for industrial or academic research fellowships or positions.
6. Disseminate their research at a local, regional, or national meeting.
7. Use the scientific method, generate hypotheses, and/or design experiments.

Benefits and Rationale
Students participating in the track will 1) conduct independent experiments 2) improve critical thinking 3) analyze research literature 4) effectively manage their time. Their track is primarily intended for students with significant interest in completing post-graduate research fellowships or in obtaining industrial research positions. The track program will be comprised of four main components:

- Coursework: Students will complete at least 3 credit hours of PHRM 482 Independent Research.
- Experiential education: Students will apply their knowledge in a research focused elective APPE rotation.
- Industrial and research fellowship preparation: Students will participate in a workshop intended to prepare them to apply for research positions.
- Presentation of research: Students will disseminate the results of their research at a local, state, or national venue.

This program is designed to provide track participants with the necessary guidance, experiences, and core knowledge to obtain and succeed in a research position.

Admission Requirements
Students must satisfy the following criteria to be considered for admission to the track:

- Current enrollment in good standing in the Manchester University Pharmacy Program in the second professional year
- Successful completion of all required coursework through the spring semester of the first professional year

Interested students must submit the following application materials to the Research Track Director (Dr. Brown) by May 1st during the first professional year:

- Current curriculum vitae including GPA
- Cover letter describing interest in participating in the track program, professional goals, and the reason(s) the candidate merits consideration for the track program
The following selection criteria will be used to determine which students will be offered admission to the program:

- Completeness and content of application materials
- Compatibility of the applicants’ career aspirations, reasons for interest in the program, and professional goals with the goals of the program

Each year, up to 6 applicants will be selected for entry into the track program. Applicants will be notified no later than June 1st regarding status of their application.

**Required Program Experiences**

Successful completion of the track program requires successful completion of the following experiences:

- All required core curriculum as required by the Manchester University Pharmacy Program
- One elective didactic course:
  - PHRM 482 – Independent Research (3 credit hours minimum). These credits can be taken in a single semester or over the course of multiple semesters. Note that each credit hour requires 2-3 hours of work per week. The research must be pharmaceutical sciences based.
- The following APPE rotation
  - Research Elective (4 credit hours, 4-week APPE rotation)
- A research project and poster presentation at a local, regional, or national meeting.
  - The project will be identified by the course coordinators or by student suggestion and coordinator approval.
  - Participants will be assigned a pharmaceutical sciences faculty member to serve as their research mentor. This individual will guide them through the research project experience during the entirety of the track and will be responsible for mentoring and assessing successful completion of the project.
  - The project must be submitted for dissemination as a podium or poster presentation at a local, regional and/or national conference.
- Attendance at the workshop session.
  - Workshop topics will vary based upon needs of track participants
  - Students should be prepared to attend workshops that may occur outside normal business hours (i.e., during evenings or weekends).

**Student Assessment**

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Assessment Strategy</th>
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<tbody>
<tr>
<td>1. Demonstrate an expanded knowledge base in research methodologies and techniques.</td>
<td>Successful completion of the described courses and APPE rotation</td>
</tr>
<tr>
<td>2. Critically read and evaluate primary research literature and apply it to their research project.</td>
<td>Formulation of research question</td>
</tr>
<tr>
<td>3. Successfully manage their time to complete a research project.</td>
<td>Successful completion of assigned project</td>
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<tr>
<td>4. Gain experiences to increase competitive position when applying for industrial or academic research fellowships or positions.</td>
<td>Track number of students applying for or entering research positions following graduation</td>
</tr>
<tr>
<td>5. Disseminate their research at a local, regional, or national meeting.</td>
<td>Submission of the project to local, regional, or national meeting and/or submission to a journal.</td>
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</table>
6. Use the scientific method, generate hypotheses, and/or design experiments.

Completion of research project

Track Assessment

The success of the track and need for modification will be determined using the following methods:

- Number/percentage of students applying for research positions will be recorded and tracked.
- A survey will be sent to all track program participants at the end of each academic year to assess student perceptions of the program, including areas to be improved or expanded, as well as an assessment of track faculty.
- At the end of the P4 year, each student will complete an exit interview with course coordinators describing the experience and further suggestions.

Assessment results will be collected and reviewed by track coordinators and faculty who will decide if any changes are needed to the track program.

Course Descriptions

PHRM 310 Pharmaceutical Biochemistry I – 5 hours
This course will cover essential topics in medicinal and biochemistry, including structure-function of biomolecules, enzymology, metabolism, molecular biology, receptor physiology, and fundamentals of drug design and action.

PHRM 318 Immunology – 2 hours
This course covers key immunologic concepts, including the organization and function of the different components of the immune system, and mechanisms that lead to beneficial immune responses, hypersensitivity reactions, and immune disorders. The applications of immunology in the design of vaccines, immunotherapeutics, and organ transplantation will also be discussed.

PHRM 319 Pathophysiology – 3 hours
This course focuses on the pathophysiology of common disease conditions affecting human beings across the lifespan. It includes clinically relevant concepts based on the principles of physiology, biochemistry and microbiology. The course moves from basic pathological processes to diseases by organs or organ systems to multiple system diseases and associated processes.

PHRM 322 Drug Information – 2 hours
Drug Information is designed to provide students with a foundation for an evidence-based approach to pharmacy practice in all settings. Students will gain familiarity with the types of drug literature and their uses, regulations of drug development and promotion, and a variety of drug information specialty practices. Students will be expected to demonstrate critical thinking and commitment to lifelong learning. By the end of the course, students should be able to identify and use appropriate drug information resources to systematically respond to basic requests for drug information from patients and healthcare professionals.

PHRM 325 Nonprescription Therapeutics – 3 hours
The focus of this course is the pharmacotherapeutic use of over the counter (OTC) medications, including dietary supplements. The course will introduce the student to issues surrounding the self-care decision making process. Special emphasis will be placed on how pharmacists may assist patients in safely and effectively self-treating common medical problems and to recognize when self-care is inappropriate. Home diagnostic tests, glucometers, and smoking cessation counseling/products are also discussed. PHRM 324 will be paralleled by
activities in PHRM 331 and PHRM 370 in which students gain interviewing and problem-solving skills as they apply concepts learned in Nonprescription Therapeutics classes.

**PHRM 330 Pharmacy Practice Lab I – 1 hour**
Pharmacy Practice Lab I is the first in a series of courses designed to provide students with practical experience to apply skills learned in didactic course work. Students will engage in a variety of activities simulating professional practice scenarios. Lab will focus on applications of pharmaceutical care principles, pharmaceutical knowledge, and professional techniques to solve medication-related issues. In addition, communication skills will be practiced through patient counseling exercises, presentations, group assignments, and written assignments. It is expected that students will actively engage in lab sessions through various activities and simulations. Students will also be expected to work collaboratively in teams.

**PHRM 331 Pharmacy Practice Lab II – 1 hour**
Pharmacy Practice Lab II is a longitudinal integration of material from both past courses and concurrent classes. This course will provide students with the opportunity to practice a variety of pharmacy practice skill sets. Students will engage in a variety of activities simulating professional practice scenarios through the use of peer-teaching, faculty-student interactions, demonstrations, student interactions with standardized patients, and a variety of activities focusing on pharmacy-specific and inter-professional frameworks. Students will be expected to demonstrate critical thinking skills and develop lifelong learning techniques through a variety of activities. The lab experiences will correspond to didactic lessons in Biomedical Sciences II, Introduction to Pharmacy II, Pharmaceutics II, Nonprescription Therapeutics and elements of IPPE I (Community Practice). Skills learned during this course will be reinforced and applied during IPPE experiences as well as throughout the Doctor of Pharmacy curriculum.

**PHRM 334 Pharmaceutics I – 2.5 hours**
The Pharmaceutics course series is designed to teach essential concepts of physical pharmacy, pharmaceutics, and dosage form design, including compounding and evaluation of both sterile and non-sterile dosage forms. The student will gain background knowledge and skills necessary to apply biopharmaceutical principles to the selection and evaluation of dosage forms for use in patients.

**PHRM 335 Pharmaceutics II – 2 hours**
The Pharmaceutics course series is designed to teach essential concepts of physical pharmacy, pharmaceutics, and dosage form design, including compounding and evaluation of both sterile and non-sterile dosage forms. The student will gain background knowledge and skills necessary to apply biopharmaceutical principles to the selection and evaluation of dosage forms for use in patients.

**PHRM 336 Pharmaceutical Calculations I – 2 hours**
This course explores the various methods used to perform pharmaceutical calculations required for safe medication use. Accurately performing pharmaceutical calculations is a critical component in providing patient care in every pharmacy practice environment. The development of pharmaceutical calculations skills plays a significant role in building a competent pharmacist.

**PHRM 337 Pharmacokinetics/Pharmacogenomics – 2 hours**
This hybrid course (face-to-face and online) examines the basic principles and concepts underlying the sciences of pharmacokinetics and pharmacogenomics. These concepts establish much of the basis for the rational use of pharmacotherapeutic agents. The influence of pharmacogenomic factors on pharmacokinetics are examined in detail. The course emphasizes integration of concepts and application to both basic and clinical sciences.

**PHRM 340 Patient-Centered Care – 5 hours**
This course will help prepare students for their roles and responsibilities as pharmacists in the areas of listening to, informing, and involving patients in their care, communicating effectively with other healthcare
professionals, and advocating on behalf of patients and for the pharmacy profession. Students will be introduced to the Pharmacists’ Patient Care Process, which is essential to contemporary practice of pharmacy. Focus will be placed on cultural sensitivity and pharmacy law and ethics to ensure a high standard of patient care. This course will start to shape student attitudes about pharmacy practice as they begin to chart a course for their pharmacy education and future career.

**PHRM 370 IPPE I – 3 hours**
This introductory community pharmacy practice experience (IPPE I) course will help you develop basic knowledge, professional identity, and self-confidence in the area of community pharmacy. Under the supervision and guidance of pharmacy professionals, you will gain familiarity with all aspects of pharmacy practice in the community setting. You are expected to build on knowledge and skills gained during your first professional year of college, achieving standard competencies for the practice of pharmacy in the community setting.

The course is structured so that you will complete a two-week focused learning experience in January, at an assigned community pharmacy and under the direction and supervision of an assigned preceptor. During the spring semester, you will conduct a 4-hour longitudinal experience at the same community pharmacy where your focused learning experience occurred.

**PHRM 381 Kidney Camp – 2 hours – elective**
The kidney camp elective is a required course for students who are selected from an application process to attend kidney camp. The didactic portion of this elective is preparation for kidney camp and will cover basic kidney physiology, pediatric kidney disease, peritoneal and hemodialysis, transplant, and medications used in these conditions. The course will also cover what to expect at kidney camp and simulate experiences for medication check-in, reconciliation and dealing with camper problems. Team-building exercises and assignments will be part of this course to enhance the dynamic among the participants at camp. The course will culminate with attending a six-day camp experience at Camp Tecumseh in Brookston, Indiana at the end of May/early June. In addition, students can take this course more than once for credit to further their experience.

**PHRM 382 Independent Study – 1-3 hours – elective**
Students will develop skills and techniques to enhance learning and retention in the Doctor of Pharmacy curriculum. Content will focus on core course information and may be individualized for student needs. Students will regularly participate in study tables and may have additional assignments and course responsibilities.

**PHRM 411 IPT 1 – 4 hours**
This course provides a continued integration of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, pharmacogenomics, medication use in special populations, and review of pertinent drug literature as they relate to major renal disorders.

**PHRM 412 IPT 2 – 5 hours**
The courses in the integrated pharmacotherapy series will be centered on a body system and/or disease states. Each course will incorporate instruction about the pathophysiology of body systems/disease states, the pharmacology and medicinal chemistry of the agents used to treat the disease states, and the therapeutics and management of patients. Pharmacogenomics, special populations, and toxicology concepts will also be incorporated in the discussion of disease state treatment and management. The focus of this course series is to provide students with a well-rounded understanding of caring for patients in a variety of medical circumstances.
This course provides an integrated study of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology, pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, medication use in special populations, alternative/complementary therapies, pharmacoconomics and review of pertinent drug literature as they relate to major endocrinology and reproductive diseases.

The courses in the integrated pharmacotherapy series will be centered on a body system and/or disease states. Each course will incorporate instruction about the pathophysiology of body systems/disease states, the pharmacology and medicinal chemistry of the agents used to treat the disease states, and the therapeutics and management of patients. Pharmacogenomics, special populations, and toxicology concepts will also be incorporated in the discussion of disease state treatment and management. The focus of this course series is to provide students with a well-rounded understanding of caring for patients in a variety of medical circumstances. This course provides this content for pediatric and non-immune-mediated gastrointestinal conditions.

Drug Literature Evaluation builds on the foundational evidence-based medicine practice skills developed in Drug Information. Students will gain familiarity with medication use management strategies, multiple types of pharmacy-related study design, and the process of evaluating the clinical usefulness of a medication. Students will be expected to demonstrate superior critical thinking; synthesize information from multiple resources; and write clearly, concisely, and professionally. By the end of the course, students should be able to comprehend, assess, and evaluate relevant primary literature and determine its potential impact on clinical practice.

Case Conference is a 4-course series of classes that students will progress through during their P2 to P3 year. The purpose of the case conference series is to allow students to progress in their critical thinking and clinical knowledge as they reinforce and apply what they have learned in the classroom to patient cases to facilitate the transition to become APPE-ready. Students will be able to successfully identify and resolve medication-related problems and develop comprehensive patient-centered plans to optimize drug therapy in order to achieve positive outcomes utilizing the Pharmacists’ Patient Care Process (PPCP). Patient cases will be a mixture of topics learned in the classroom to reinforce concepts taught in the IPT courses along with disease states that are not covered to exercise skills of self-directed learning. Case conference 1 will have an emphasis on instruction for patient documentation, evaluating patient cases and problem prioritization. Students will receive foundational knowledge during this course that will allow them to be successful in future case conference and integrated pharmacotherapy courses.

Case Conference is a 4-course series of classes that students will progress through during their P2 to P3 year. The purpose of the case conference series is to allow students to progress in their critical thinking and clinical knowledge as they reinforce and apply what they have learned in the classroom to patient cases to facilitate the transition to become APPE-ready. Students will be able to successfully identify and resolve medication-related problems and develop comprehensive patient-centered plans to optimize drug therapy in order to achieve positive outcomes utilizing the Pharmacists’ Patient Care Process (PPCP). Patient cases will be a mixture of topics learned in the classroom to reinforce concepts taught in the IPT courses along with disease states that are not covered to exercise skills of self-directed learning.

Pharmacy Practice Lab III is a longitudinal integration of material from both past courses and concurrent fall classes designed to prepare the student for management of patient care in a clinical setting.
practical applications of pharmacy is presented with an emphasis on the use of patient charts, assessments, diagnostics, critique of pharmacotherapy and patient education. Additional emphasis is placed on literature evaluation and the practice of evidence-based medicine.

PHRM 431 Pharmacy Practice Lab IV – 0.5 hour
Pharmacy Practice Lab IV is a longitudinal integration of material from both past courses and concurrent spring classes and will provide students with the opportunity to practice a variety of pharmacy practice skill sets. Students will engage in activities simulating professional practice scenarios through the use of peer-teaching, faculty-student interactions and demonstration, student interactions with standardized patients, and a variety of activities focusing on pharmacy-specific and inter-professional frameworks. Students will be expected to demonstrate critical thinking and lifelong learning techniques through a variety of activities that correspond to didactic lessons in Integrated Pharmacotherapy (IPT) courses (Nervous System II, Cardiovascular II, Infectious Diseases I), Drug Literature Evaluation, and elements of IPPE II (institutional practice). Skills learned during this course will be reinforced and applied during the IPPE experience as well as throughout the Doctor of Pharmacy curriculum.

PHRM 442 Healthcare Systems & Patient Safety – 4 hours
Healthcare systems & patient safety is designed to provide students with the foundational knowledge of the U.S. healthcare system and the skills to administer safe pharmaceutical care. Building on the comprehensive overview of the pharmacy profession in previous courses, this course will cover care delivery models, health insurance, medication distribution, and healthcare safety, accessibility, and quality. Discussions of the medication use system, error analysis, prevention, and risk communication will allow students to understand and advocate for safe medication practices. Students will gain familiarity with informatics and technologies that can be used to reduce risk and prevent medication errors. By the end of the course, students will have a sufficient understanding of the U.S. healthcare system and the ways to minimize risk and enhance patient safety to provide optimal patient-centered care.

PHRM 443 Pharmacy in Public Health – 3 hours
Pharmacists are an integral part of the health care system. Their vital role in the health of the population requires pharmacists to have an awareness of public health issues and their root causes, the ability to identify how the profession can contribute to public health, and the knowledge of where to find information about a variety of public health issues. Pharmacists who understand public health will develop the ability to serve in proactive roles to protect the health of their patients. This course is an organized introduction to the vast field of public health and aims to spark students’ imagination on meaningful ways of contributing to public health through the art and science of the profession of pharmacy.

PHRM 462 Research and Innovative Practice Seminar – 1 hour
Current topics, innovative practice, and current research in pharmacy, pharmaceutical sciences, and related scientific disciplines will be presented. Invited speakers from within and outside the Manchester community will provide a formal seminar, exposing students to research methodologies, potential student research projects, and networking opportunities.

PHRM 463 Research Techniques in Pharmaceutical Sciences – 1 hour
This course will provide an introduction to the laboratory techniques used in contemporary pharmaceutical sciences research. Students will learn the theory behind the most common laboratory experiments, including mammalian tissue culture, Western blotting, isolation and purification of nucleic acids, quantitative polymerase chain reaction, and others. These techniques will then be applied in the laboratory setting.

PHRM 465 Drug Induced Diseases – 2 hours
Drug-induced diseases elective is an opportunity for students to further their critical thinking and problem-solving skills in evaluating patients for various adverse reactions. Course content will focus on major drug-
induced diseases likely to be encountered in both inpatient and ambulatory settings delivered in a case-based, active format. Students who complete the course will be prepared to apply drug safety principles, emphasizing drug-induced diseases, to their execution of the Pharmacists Patient Care Process (PPCP).

**PHRM 470 IPPE II Institutional – 3 hours**
This introductory institutional pharmacy practice experience (IPPE II) course will develop students’ basic knowledge, professional identity, and self-confidence in the area of institutional pharmacy. Under the supervision and guidance of pharmacy professionals, students will gain familiarity with all aspects of pharmacy practice in selected institutional settings. Students will be expected to build on knowledge and skills gained during their first professional year of school, achieving standard competencies for the practice of pharmacy in the institutional setting bearing in mind that competence at a mastery level in all areas is not to be expected at this stage of the student’s education.

**PHRM 471 IPPE II Institutional – 4 hours**
This introductory institutional pharmacy practice experience (IPPE II) course will develop students’ basic knowledge, professional identity and self-confidence in the area of institutional pharmacy. Under the supervision and guidance of pharmacy professionals, students will gain familiarity with all aspects of pharmacy practice in selected institutional settings. Students will be expected to build on knowledge and skills gained during their first professional year of school, achieving standard competencies for the practice of pharmacy in the institutional setting bearing in mind that competence at a mastery level in all areas is not to be expected at this stage of the student’s education.

**PHRM 482 Independent Research – 1-3 hours – elective**
This elective course is designed to allow students to pursue research interests and become familiar with techniques used in research of discovery, integration, application, and/or scholarship of teaching and learning. In collaboration with a faculty research mentor, each student will select an appropriate research problem and work towards its solution. This course may be repeated for credit.

**PHRM 489 Drugs in Popular Literature – 2 hours – elective**
This course will focus on the representation of drugs in popular literature. A minimum of two books will be selected, read, and discussed during the course in a book club style. The purpose of the course is to orient pharmacy students to the public’s perceptions of medicine and/or the healthcare system, as well as to provide a contextual reference of the history of drug development and/or drug use. This course will tackle some of the assumptions health care providers may have and explore ways to be more thoughtful in decisions and in the care of patients.

**PHRM 493 Teaching Assistant – 1-2 hours – elective**
This course will enable students to serve as Teaching Assistants (TAs) in a variety of pharmacy courses. TAs will develop skills in using a learning management system from the perspective of a TA. TAs will learn about FERPA and the requirements of this law. TAs will provide support at study table sessions to assist students with core courses. TAs will work closely with their assigned course coordinator to complete other course-related tasks.

**PHRM 494 Pharmacy in Athletic Training – 2 hours – elective**
This course will run parallel to the Masters in Athletic Training (MAT) Pharmacy Course (ATTR 563), in which pharmacy students will learn the basics of MAT scope of practice, some simple athletic training injury prevention, treatment, and rehabilitation techniques, selection and fitting principles for common OTC braces and crutches, minor injury triage and treatment, and the role that medications play in MAT practice. Student pharmacist participants will lead topic discussions with the MAT students in ATTR 563 surrounding MAT-focused medication principles in disease states most commonly encountered in MAT daily practice, both in athletes and in workforce injury prevention and rehabilitation.
PHRM 495 Research Responsibilities and Ethics – 1 hour – elective
Discusses ethics of scientific research involving humans. Bioethics and how it is applied to design and conduct of human drug research. Ethical issues involved with personal genetic information will be emphasized.

PHRM 521 Capstone Course – 5 hours
The focus of this course is to reinforce and apply knowledge and skills obtained throughout the curriculum to facilitate the transition to become APPE-ready and subsequently practice-ready. Students will be able to successfully identify and resolve medication-related problems and develop comprehensive patient-centered plans to optimize drug therapy in order to achieve positive outcomes utilizing the JCPP Pharmacists’ Patient Care Process. This course provides the opportunity to complete two nationally recognized track programs through APhA: 1. Delivery Medication Therapy Management (MTM) Services 2. The Pharmacist and Patient-Centered Diabetes Care.

The purpose of this course is to prepare students to become APPE-ready and subsequently practice-ready by synthesizing knowledge, enhancing critical thinking skills, and finding and utilizing literature to create evidence-based recommendations. Within this course, students will develop proficiency in projects that are required for APPE rotations, such as patient care activities requiring self-directed integration and application of knowledge previously gained in the curriculum. Students will cultivate the skills of applying feedback to improve performance, self-directed learning, and applying updated guidelines and late-breaking drug information. Active participation throughout the course will accomplish course goals.

PHRM 530 Pharmacy Practice Lab V – 1 hour
Pharmacy Practice Lab V is a longitudinal integration of materials from both past courses and concurrent fall classes, and will provide students with the opportunity to practice a variety of pharmacy practice skill sets. Students will engage in activities simulating professional practice scenarios through the use of peer-teaching, faculty-student interactions and demonstration, student interactions with standardized patients, and a variety of activities focusing on pharmacy-specific and inter-professional frameworks.

Consistent with our ability-based outcomes, ACPE Appendix D pre-ACPE core domains, and ACPE Appendix B knowledge standards, students will be expected to demonstrate critical thinking and commitment to lifelong learning through a variety of activities that correspond to didactic lessons in Integrated Pharmacotherapy (IPT) courses (PHRM 550, PHRM 551, PHRM 552, PHRM 552, PHRM 553) and PHRM 540. Skills learned during this course will be reinforced and applied throughout the Doctor of Pharmacy curriculum.

PHRM 531 Pharmacy Practice Lab VI – 1 hour
Pharmacy Practice Lab VI will provide students with the opportunity to practice a variety of pharmacy practice skill sets. Students will engage in activities simulating professional practice scenarios through the use of peer-teaching, faculty-student interactions and demonstration, student interactions with standardized patients, and a variety of activities focusing on pharmacy-specific and inter-professional frameworks.

PHRM 540 Practice and Personnel Management – 3 hours
This course will provide a focused examination of the role of the pharmacist as a leader and manager in various practice settings. Management principles and topics will include leadership, planning and organization, personnel issues, practice strategies, business models, marketing, financial analysis, and advocacy.

PHRM 541 Pharmacy Law – 2 hours
This course focuses on the interpretation and application of laws and regulations pertaining to the practice of pharmacy. Also, the course focuses on ethical issues surrounding pharmacy practice and how those issues intersect with applicable laws and regulations.

PHRM 550 IPT – Infectious Disease II – 2.5 hours
This course provides an integrated study of epidemiology, microbiology, pathophysiology, medicinal
chemistry, physical assessment, pharmacology & pharmacogenomics, chemotherapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to infectious diseases. The emphasis of this course will be infectious diseases that are caused by fungi and viruses.

**PHRM 551 IPT – Endocrine & Reproductive – 3.5 hours**
This course provides an integrated study of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to the endocrine and reproductive systems.

**PHRM 552 IPT – Renal & Urologic – 3.5 hours**
This course provides a continued integration of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to major renal and urologic disorders.

**PHRM 553 IPT – Pulmonary & Critical Care – 2.5 hours**
This course provides an integrated study of epidemiology, microbiology, pathophysiology, medicinal chemistry, physical assessment, pharmacology & pharmacogenomics, chemotherapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to pulmonary and critical care medicine.

**PHRM 554 IPT – Gastrointestinal – 3 hours**
This course provides an integrated study of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, pharmacoepidemiology, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to the digestive system and nutrition therapy.

**PHRM 555 IPT – Immune, Musculoskeletal, Integumentary – 3 hours**
This course provides an integrated study of anatomy, physiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to the immune and integumentary systems.

**PHRM 556 IPT – Hematology/Oncology – 3 hours**
This course provides an integrated study of epidemiology, pathophysiology, physical assessment, medicinal chemistry, pharmacology & pharmacogenomics, therapeutics, clinical pharmacokinetics, patient care, alternative/complementary therapies, Pharmacoeconomics, medication use in special populations, and review of pertinent drug literature as they relate to the hematological system and neoplastic growths.

**PHRM 571 Ambulatory Care Pharmacy Practice – 2 hours – elective**
This course is an introduction to ambulatory care pharmacy practice with a focus on various practice models, developing ambulatory care services, common disease states that pharmacists manage in primary care, and a holistic approach to managing patients. Throughout the course, students will be expected to participate in active learning coursework to further develop communication skills, problem solving, and team collaboration. The general format of the class will be open forum discussion with an emphasis on student participation. The class will consist of both lecture and case-based studies.
PHRM 576 Pharmacotherapy of the Critically Ill Patient – 2 hours – elective
This course is designed to introduce students to selected disease states encountered in the intensive care unit and infectious diseases settings as well as current controversies regarding the clinical management of these patients. The management of these patients will be discussed using case study, application of medical literature, student-led presentations, and open discussion.

PHRM 589 Applications of Drug Literature – 1 hour – elective
PHRM 589 builds on the evidence-based practice skills developed in Drug Information and Drug Literature Evaluation and combines it with the therapeutic decision-making skills nurtured by the IPT courses. Students will be expected to demonstrate superior critical thinking, professional writing, and professional presentation skills. By actively participating in literature evaluation and applying their drug literature assessment skills to clinical scenarios and key decision points encountered in ambulatory settings, students can expect to master the translation of drug information skills to individualistic optimization of complex patient therapies related to neuropsychiatric care. Prerequisite: PHRM 420 & PHRM 454.

PHRM 595 Postgraduate Residency Training – 1 hour – elective
The goal of this course is to prepare students to succeed in the PGY1 pharmacy residency recruitment process. Success not only includes obtaining a position through the residency match, but also understanding the responsibilities, expectations, benefits, and drawbacks of residency life, identifying characteristics of a strong residency candidate, determining whether a residency is the right choice for you, and finding a residency that will enable you to meet your personal goals. Students in this course will meet with residents, preceptors, and program directors, reflect on their strengths and weaknesses, prepare professional correspondence, participate in mock interviews, and make a plan for success in the residency recruitment process following the course.

PHRM 596 Leadership for Pharmacists – 2 hours – elective
This course is designed to provide students with an opportunity to build on the core curriculum in areas related to leadership. Theories and practices pertaining to leadership are reviewed and expanded upon using a variety of readings, case studies for application, and projects. Students will develop greater self-knowledge, learn ways to work with others, and apply leadership principles to current pharmacy and healthcare situations.

PHRM 597 Leadership: People & Change – 2 hours – elective
The focus of this final leadership course in the elective series will shift to leading teams, working constructively with others, and effecting change in the pharmacy profession. Theories and application of teamwork, transformational leadership, and change management will be presented. Students will utilize skills developed throughout the series to identify and develop a management related project within the pharmacy profession.

PHRM 610 APPE Advanced Community – 4 hours
The Advanced Community Rotation focuses on the day-to-day operations of a retail/community pharmacy such as counseling and monitoring ambulatory patients, communicating with various caregivers and healthcare providers along with medication procurement and dispensing. The overarching goal of this rotation is to prepare student pharmacist to think and act as a professional. Steps to achieving this goal include exploring as many experiences as possible, being confident in the performance of daily tasks, finding value and application in the rotation for your future career, and having a complete understanding of a community pharmacist’s role in the healthcare system.

PHRM 620 APPE Advanced Institutional – 4 hours
The Advanced Institutional/Hospital Rotation focuses on the day-to-day operations of an institutional/hospital environment, such as providing general care to patients and procurement and distribution of medications. The overarching goal of this rotation builds upon the knowledge and skills previously learned in order to fully participate in hospital pharmacy operations and services. Steps to achieving this goal include exploring as
many experiences as possible, being confident in the performance of daily tasks, finding value and application
in the rotation for your future career, and having a complete understanding of an institutional/hospital
pharmacist’s role in the healthcare system.

**PHRM 630 APPE Ambulatory Care – 4 hours**
The Ambulatory Patient Care Rotation focuses on the ambulatory patient and their long-term medical needs
and care. The overarching goal of this rotation is to provide pharmaceutical care in an ambulatory care setting.
Steps to achieving this goal include exploring as many experiences as possible, being confident in the
performance of daily tasks, finding value and application in the rotation for your future career, and having a
complete understanding of an ambulatory care pharmacist’s role in the healthcare system. This course may be
repeated for credit.

**PHRM 640 APPE Acute Care – 4 hours**
The Acute Care Rotation focuses on enhancing your ability to observe and provide comprehensive medication
therapy management for acutely ill patients in an institutional setting. You will be able to identify and optimize
pharmacotherapy in a hospitalized patient. The overarching goal of this rotation is to learn what pharmacists
do in the institutional setting by gaining hands-on experience with contributing to patient care. You will
master disease states and drug-related issues to the level of an entry-level pharmacist. This course may be
repeated for credit.

**PHRM 670 APEE Electives – 4 hours**
Elective advanced pharmacy practice experiences (APPE) in other settings (such as research, management,
drug information, academia, managed care, long-term care, hospice, and home health care) should
complement the required experiences and provide adequate and innovative opportunities for students to
mature professionally and in accordance with their individual interests. The overarching goal of the elective
APPE is for students to broaden their practice experience in pharmacy and pharmacy-related settings while
positively contributing to the activities at the site.

**500 level courses** that are a part of the renewed curriculum will be available in the 2022-2023 bulletin.

**Community Service and Outreach**
The Pharmacy Program's service program is intended to promote a service-learning philosophy and assist
students in engaging with our community. This program will be a non-credit-bearing progression requirement
in the P1, P2, and P3 years of the Doctor of Pharmacy Curriculum. All students must complete the required
service-learning activities in order to progress into the next professional year. Required activities will include
service time in the community, reflections, presentations, and attendance at service-learning events on
campus. Each semester’s service activities will culminate in a Day of Service which will celebrate our students’
and faculty members’ service accomplishments.

**Co-curriculum**
The Pharmacy Program requires students to complete co-curricular requirements as a means to document
their progression and achievement of desired competencies or outcomes, especially those related to
professional identity formation (PIF). This approach allows students to reflect on their own professional
development and experiences. By providing an opportunity for students to reflect on key issues throughout
the curriculum, students are able to provide evidence of personal and professional growth based on these
experiences. The co-curriculum is part of a student’s professional development since components are
individualized to present evidence of progression and mastery of the curricular outcomes.
Academic Policies

Registration
Registration for courses is coordinated through the Office of the Registrar using online forms and processes. Students will receive registration instructions prior to the beginning of each semester.

Transfer of Credit
Because of the highly specialized nature of the Doctor of Pharmacy program, credit hours for previously completed courses from other programs typically may not be transferred for credit in the program. Each course within the program is essential for completion of the program.

Grading System
The following grading system will be used in all letter-graded courses in the Pharmacy Program. Numerical course grades will be calculated to one decimal place when assigning letter grades.

<table>
<thead>
<tr>
<th>Letter</th>
<th>Course grade range (%)</th>
<th>Quality Point value (used in determining GPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 and above</td>
<td>4.0</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89</td>
<td>3.0</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79</td>
<td>2.0</td>
</tr>
<tr>
<td>F</td>
<td>Less than 70</td>
<td>0</td>
</tr>
</tbody>
</table>

Faculty may also designate a course Pass/Not Pass (P/NP) with approval from the Curriculum Committee. Students may not elect to take a graded course P/NP. These courses are not included in GPA calculations.

Other grades which may be earned include the following:

**AU**: Course audited. A course in the Pharmacy Program may be audited only upon recommendation of the assistant/associate Dean for academic programs and permission of the course instructor.

**I**: Incomplete (Temporary grade). The student is unable to complete required coursework by the end of the semester. To earn a grade, all coursework must be completed within eight weeks of the end of the academic year (the spring semester of the year in which the course was taken); otherwise a grade of F (or NP) will be assigned.

**NR**: Grade not reported (Temporary grade). Course extends beyond end of semester or required course evaluations are not completed. To earn a grade, all coursework must be completed within eight weeks of the end of the academic year (the spring semester of the year in which the course was taken); otherwise a grade of F (or NP) will be assigned.

**UW**: Unauthorized Withdrawal. The student does not withdraw but stops attending class. Zero quality points are assigned, and the course is included in the GPA calculation.

**W**: Withdrawn. The student withdraws from a course during the first two-thirds of a course. The course is not included in GPA calculations.

**WF**: Withdrawn Failing. The student withdraws from a course during the final one-third of the course. Zero quality points are assigned, and the course is included in the GPA calculation.

Dean’s List
At the end of each semester, the Dean of pharmacy and health sciences publishes the Dean’s List. Students who are included in the Dean’s List will:

- Be a student in good standing in the first, second, or third years of the Doctor of Pharmacy program;
- Earn a semester grade point average of 3.5 or higher;
• Have completed at least 12 graded semester hours; and
• Not have any Incomplete (I) or Not Recorded (NR) grades at the end of the semester.

Withdrawal from the Pharmacy Program
Manchester University regards the registration of a student as a contractual agreement. For this reason, special procedures must be followed in the event a student withdraws from a program at Manchester University. Any student considering withdrawal from the Pharmacy Program for any reason after the beginning of classes initiates the process by having an interview with a member of the Pharmacy Program Office of Academic and Student Affairs staff. A form obtained from that office must be completed with signatures from the student financial services and registrar’s offices. Before withdrawal is finalized, the student must meet with the Dean of pharmacy and health sciences or the assistant/associate Dean of academic programs and return all Manchester property to the Office of Academic & Student Affairs; this includes but is not limited to the Manchester-issued computer, photo identification card, white coat, and any keys issued to the student.

Leave of Absence Policy
Manchester University permits students to interrupt their studies when appropriate. If granted, a leave of absence allows a student to continue under the requirements in effect when he/she was initially admitted. A student who wants to interrupt their studies at the University for a temporary period may maintain degree status and ensure that his/her degree requirements will remain the same by taking a leave of absence for a maximum total of 180 days in any 12-month period. A degree candidate who is granted a leave of absence does not need to be readmitted to the University upon returning to their program of study.

A student must meet the following requirements to be eligible for a leave of absence:

• Be a degree seeking undergraduate or graduate student
• Be registered for the semester immediately prior to the beginning of the Leave of Absence
• Be in good academic standing, on probation, or on continuing probation with his/her college
• Have no holds (i.e. disciplinary or financial) which would restrict registration
• Submit a formal written and signed Leave of Absence application form, which specifies the reason for the student’s leave

The Leave of Absence Application must be submitted to prior to the start of the term for which the leave is requested. If a student has already enrolled for the semester for which a leave is being requested, they must drop all courses; if they do not, their courses will automatically be dropped upon approval of the Leave of Absence.

Leave of Absence are granted for future terms only and are not granted retroactively or in the middle of a term. In such exceptional cases where unforeseen circumstances occur after the start of a term, students are permitted to officially withdraw from the University according to the University's Official Withdrawal policy. In all such cases where an official leave of absence is not granted, the University is required to perform a return of federal funds calculation for students receiving Title IV federal financial aid.

A student is expected to return from an approved leave of absence within 180 days from the start date of the approved leave. When a student fails to return from a leave of absence, the student’s withdrawal date will be reported to the National Student Clearinghouse and NSLDS as the date the student began the leave of absence. Upon returning from a leave of absence, the student may register for classes accordingly. No financial aid or additional fees will be assessed during the leave of absence period.

International students should know that ICE regulations may prohibit those who have been granted such a leave from maintaining their visa status.
Refund Policy

Refund Tuition/Fees
In the case of official withdrawal from the university, a refund, less a withdrawal charge, is made according to the following schedules:

Fall and/or spring semester refund schedule

- Withdrawal before the official start of the semester: 100 percent refund
- Withdrawal during the first and second weeks of the semester: 75 percent refund
- Withdrawal during the third and fourth weeks of the semester: 50 percent refund
- Withdrawal during the fifth and sixth weeks of the semester: 25 percent refund
- Withdrawal after the sixth week of the semester: No refund

Return of Title IV Funds – Graduate and Professional Programs:
Students who receive Title IV aid (Direct Loans and Direct PLUS Loans) and completely withdraw from the University are subject to the Return of Title IV Funds calculation, as mandated by the Department of Education. The Return of Title IV Funds calculation is different from the University’s refund calculation; therefore, a student who withdraws before completing 60 percent of a payment period may owe the University for charges no longer covered by returned federal aid.

Under the Return of Title IV Funds calculation, the amount of Title IV aid a student has earned is determined by the percentage of days enrolled during a semester. This percentage is determined by dividing the number of days enrolled by the number of calendar days in the semester, including weekends and holidays. The student may retain the amount of aid earned. Any aid not earned will be returned to the appropriate programs. Once the attendance percentage has reached 60 percent, all Title IV aid is considered earned.

The date of a student withdrawal is determined by the University as follows:

- The student began the prescribed official withdrawal process;
- The student otherwise provided the school with official notification of the intent to withdraw; or
- For “unofficial withdrawals,” the last date of attendance or the last date of participation in a class as determined by faculty. If no date can be documented, then the midpoint of the semester for which Title IV aid was disbursed will be used.

The federal return of funds policy requires that Title IV funds be returned in the following order:

Unsubsidized Federal Direct Loans
Subsidized Federal Direct Loans
Federal Direct PLUS Loans

The return of Title IV unearned funds will be completed no later than 45 days after the date of the school’s determination the student withdrew.

Post-Withdrawal Disbursement
If Title IV aid has been earned by the student, but not disbursed prior to withdrawal, the student is entitled to a post-withdrawal disbursement. Manchester University will request the student’s permission prior to disbursing the loan funds to the student’s account. A letter will be emailed to the student’s personal email address of record within 30 days of the date of determination the student withdrew, requesting that the student provide authorization in writing to disburse the funds. We ask that you respond within 14 days of receiving the letter to inform us if you want to accept the funding. If we do not receive a response, we are not required to make the post-withdrawal disbursement.
Payment of Refunds
Refunds are distributed according to the guidelines governing refunds for each source of funds drawn upon to pay educational costs, including any or all Federal Title IV funds.

Payment of University Charges
Semester payments are due May 1 for the summer session, **July 20** for the fall semester, and December 20 for the spring semester.

Methods of payment accepted include:

- **Online Payment Options through the Student Account Center**
  Students can access the Student Account Center through ChetNet. Parents/others that have been added as an Authorized User can access through the Student Financial Services website [www.manchester.edu/sfs/payments](http://www.manchester.edu/sfs/payments).

- **Electronic Check**
  - Make payment online using an e-check. There is no fee for this service.

- **Credit or Debit Card**
  - Make a payment online using a Visa, MasterCard, Discover, or American Express card. Please note that a convenience fee of 2.85% or a minimum of $3.00 (whichever is greater) will be charged by Pay Path for the processing of credit or debit card payments. Manchester University does not receive any portion of this non-refundable fee.

- **Monthly payment option**
  - Manchester University offers Spartan Payment Plans for interest- free, monthly payments. Yearly and semester only plans are available. Student and parents will enroll through the Student Account Center. Full details are available at the [Spartan Payment Plans](http://www.manchester.edu/sfs/payments) website.

- **Check or money order payable to Manchester University, mailed to:**
  Manchester University
  Attention Student Financial Services
  604 E. College Ave.
  North Manchester, IN 46962

- **In Person payment**
  - Check, cash, or money order payments can be made Monday through Friday, 8 a.m. to 5 p.m. in the Student Financial Services office located in Chinworth suite 103 on the North Manchester Campus.

Students with unpaid balances may lose current enrollment and will not be allowed to register for any subsequent terms. Transcripts and diplomas are withheld from those who have not settled their financial obligations to Manchester University, which may include collection fees, attorney’s fees, and court costs.

Students are not fully registered, nor will they have the privilege of class attendance or use of University facilities until their charges are paid. A service charge of 1.5 percent or $30, whichever is greater, may be added to any unpaid balance in the student account as of the last working day of each month.

**Progression in the Doctor of Pharmacy Program**

- A student must complete all required courses with a grade of C or better (or P) to progress in the program. Students must also complete all designated non-course requirements (e. g. service learning, portfolio activities, etc.) to progress.
- A student must complete all required courses, including a minimum of 5 elective credits, in the first three professional years with a grade of C or better (or P) to progress to Advanced Pharmacy Practice Experience (APPE) rotations.
• A student must complete all required coursework within six years of admission into the program. Remediation, leaves of absence, withdrawals (medical or otherwise), suspensions, and delayed progression shall be included within the six-year period. A student shall be dismissed from the program when it is determined by the assistant/associate Dean for academic programs that the student will not be able to meet the six-year requirement.
• A student who fails to pass the same required course twice will be dismissed from the program.

**Academic Probation**
A student may be placed on probation when his/her performance fails to meet the criteria listed below. If performance does not improve, the student may be suspended or dismissed from the Pharmacy Program.

• A student will be placed on academic probation when one or more of the following occurs:
  o The student has failed a course
  o The student’s cumulative GPA falls below 2.0
• A student may come off academic probation when:
  o The student passes a previously failed course and passes all required courses in the subsequent semester
  o The student's cumulative GPA rises above or equal to 2.0
• During the time a student is on academic probation, the student must devote maximum attention to studies and therefore:
  o The student may be required to complete additional, supplemental coursework such as PHRM 382 Independent Study
  o The student may not serve as an ambassador for the Pharmacy Program
  o The student may not serve as a representative on any Pharmacy Program or University-wide committees
  o The student may not hold elected office in any student organization, and must relinquish any current elected office position, making all the necessary arrangements for their replacement as soon as academic probation is in effect
  o The Office of Academic and Student Affairs will notify appropriate committee chairs and student organization mentors to ensure the terms of probation are followed

**Remediation (policy for Class of 2024 and beyond)**
The purpose of remediation is to give students the best chance to demonstrate proficiency in course outcomes while maintaining timely progression in the Doctor of Pharmacy curriculum.

• Remediation of course outcomes will occur on or before two working days following the end of the semester. The remediation process may occur during the semester.
• The remediation plan/process is specific to each course, is determined by course faculty, and is outlined in the course syllabus or posted on the course specific learning management system (e.g. Canvas) site.
• Students may not appeal a course remediation plan/process.

**Remediation (policy for Class of 2022, 2023)**
The purpose of remediation is to give students the best chance to demonstrate proficiency in course outcomes while maintaining timely progression in the Doctor of Pharmacy curriculum.

• Remediation Limits: A student may or may not be eligible for a course remediation based on the following criteria:
  o A student who earns a percentage grade below 60% within the failed course will not be eligible for remediation. The student will receive an F in the course and will be assigned an alternate
course of study by the assistant/associate Dean for academic programs. The student and the Dean of pharmacy and graduate life sciences will sign off on the future course of study.

- A student who fails two required courses in one semester will not be eligible for remediation. The student will receive a grade of F in both courses and will be assigned an alternate course of study by the assistant/associate Dean for academic programs. The student and the Dean of pharmacy and graduate life sciences will sign off on the future course of study.

- A student who fails three or more courses in one semester will be dismissed from the program.

- Remediation is not permitted for the same course twice
  - If a student fails remediation for a required course, and subsequently fails the same course again, that student will be dismissed from the program.
  - If a student is ineligible for remediation for a required course and subsequently fails the same course again, the student may enter remediation given that eligibility requirements are met. If the student fails remediation, that student will be dismissed from the program.
  - If a student is ineligible for remediation for a required course and subsequently fails the same course without meeting the eligibility requirements for remediation, that student will be dismissed from the program.

- Each student is allowed a maximum of four remediation attempts during the length of the program. A student who exceeds this limit will be dismissed from the program.

- Guidelines for remediation
  - The course coordinator, in consultation with the course faculty, will develop a plan of remediation.
  - The course policies, learning objectives, content, and types of assessments in remediation should be consistent with those in the original course. The number of assessments used during remediation will be left to the discretion of the course faculty and course coordinators.
  - In order to receive accommodations during the remediation period, the student in remediation must request accommodations and provide appropriate documentation to the faculty member or administrator responsible for assessment administration logistics during the remediation period. This request and documentation must be made and provided within two working days of signing the remediation plan. Typically, the course coordinator is responsible for assessment administration logistics during the remediation period. However, due to remediation falling outside of the regularly scheduled semester, assessment administration logistics may fall to someone other than the course coordinator.
  - Students may not appeal a course remediation plan.
  - Students will be expected to utilize the original course materials and course recordings as resources during the remediation period.

- Implementation of remediation
  - Remediation of the course outcomes will occur following the end of the semester and will be completed within 8 weeks following the end of the academic year.
  - Within two business days of completion of all course assessments, the course coordinator will provide the assistant/associate Dean for academic programs a list of students whose combined assessment average falls below 70% for the course. This report should include the final percentage grade obtained by each of these students.
  - The assistant/associate Dean for academic programs will notify students whose combined assessment average is below 70% for the course regarding their eligibility to enter remediation for the course, based on remediation limits ("Remediation" section, point 1).
  - If a student eligible for remediation chooses to remediate, the course coordinator will record a grade of NR (not recorded) in the original course with the registrar during remediation. This grade will be replaced with the final course grade at the conclusion of the remediation period.
Until a final course grade is assigned, the student is ineligible to appeal said course grade. Therefore, a student who chooses to enter into remediation forgoes his/her right to appeal a final course grade until the conclusion of remediation and the documentation of the final course grade for said course.

- If a student chooses to forgo remediation, the course coordinator will record a grade of F (failing) with the registrar. The student is eligible then to appeal the final course grade at that time.
- To officially enter into remediation, the student must sign the course remediation plan. The course coordinator and the assistant/associate Dean for academic programs will also sign this plan.
- The assistant/associate Dean for academic programs will notify the necessary Program and University officials and faculty mentors that a student is in remediation.

- Conclusion of remediation
  - Within two business days of completion of all remediation assessments, the course coordinator will provide the assistant/associate Dean for academic programs results for all students participating in remediation. This report should include the final percentage grade obtained by each student in remediation.
  - For students passing remediation, the course coordinator should submit a grade of C (or P) in the course to the registrar and notify the student accordingly.
  - For students failing remediation, the course coordinator should submit a grade of F in the original course to the registrar and notify the student accordingly. The assistant/associate Dean for academic programs will recommend an alternate course of study. The student and Dean will sign off on the future course of study with the student’s faculty mentor.
  - The assistant/associate Dean for academic programs will notify necessary Program and University officials of the outcomes of each student’s remediation.

- Experiential Education
  - For remediation and progression policies related to the fourth professional year (APPEs), please refer to the Experiential Education Manual.

- Remediation will not be offered for elective courses.

Course Retake

- Students who do not successfully pass a course with a grade of 69.5% or higher will need to retake the class or the equivalent the next time it is offered.
- Prior to the next course offering, students may be required to complete additional, supplemental coursework at the discretion of the Assistant/Associate Dean of Academic Programs or the Pharmacy Academic Standards and Progression (PASP) committee to help them succeed in the program.

Suspension and Dismissal

Suspension: A suspended student is removed from the Pharmacy Program for a length of time. During this time, he/she cannot graduate or progress toward the earning of a degree at the Program. Suspended students are not automatically readmitted to the Pharmacy Program. They may apply for readmission to the Program based on the criteria delineated in their suspension. If readmitted, the student’s prior course credits count towards progression in the program.

Dismissal: A dismissed student is removed from the Pharmacy Program. The student may reapply for admission as any other eligible student and may or may not be readmitted to the Pharmacy Program. If readmitted, the student’s prior course credits do not count towards progression in the program.
These actions will be communicated to students at the end of each semester. The assistant/associate Dean for academic programs will also present a semester-end report to the faculty showing the number of students in each category at the end of each semester.

**Pharmacy Academic Standards and Progression Committee (PASP)**

*Purpose:* To review all grade appeals and appeals to the academic policies within the Doctor of Pharmacy Program. The committee has the right and responsibility to render decisions and apply stipulations regarding the appeals.

*Structure:* Three faculty-elected faculty members with representation from each department. Members serve 3-year terms, with one faculty member being elected every year. Two alternate members will also be elected to serve in the event that a committee member must recuse themselves from an appeal process if there is a conflict of interest (e.g. the committee member assigned a grade that is being appealed or serves as the appealing student’s mentor) or is absent as approved by their supervisor. The committee is chaired by the Assistant/Associate Dean of Academic and Student Affairs, who serves in an ex-officio capacity. For appeals regarding experiential education, an administrator from the Office of Experiential Education (OEE) will participate in an ex-officio capacity. Ex-officio members of the committee have the right to participate in meetings of the PASP but have no voting rights. Administrative support to the PASP is provided by the Office of Academic and Student Affairs (OASA). All records from the committee’s discussions and decisions are housed in the OASA.

**Course Grade Appeal Process**

A student is eligible to appeal a final course grade. A student who chooses to enter remediation is not eligible to appeal the course grade, as a final grade is not yet rendered. When the remediation period is complete and a final course grade is rendered, a student is eligible to appeal.

- **Appeal to the Course Coordinator**
  - Student will communicate with the course coordinator about the course grade, the plan to appeal, and the basis for the planned appeal. In the case of experiential course grade appeals, an administrator from the OEE can conduct this communication. The communication must occur after the course grade is finalized and before submitting a formal letter of appeal to the Pharmacy Academic Standards and Progression Committee (PASP). Following the communication with the course coordinator, the student writes a summary of the discussion and emails that summary to the course coordinator for corroboration/verification. This email will be shared with the PASP as part of the appeal process.
    - *Purpose:* To allow an opportunity for the course coordinator and student to come to a final course grade agreement, if possible. The communication provides opportunity for the faculty member to explain the student-earned grade and for the student to identify any potential concerns directly to the course coordinator. As all didactic course work was reviewed and graded during the course, this is not an opportunity for regrading.
  - If the student chooses to enter into the formal appeal process following the communication with the course coordinator, they can appeal to the Pharmacy Academic Standards and Progression Committee.
- **Appeal to Pharmacy Academic Standards and Progression Committee (PASP)**
  - Within five business days of receiving official notification of the final course grade by the OASA or through the Office of the Registrar (whichever is first), the student must submit the appeal form that is provided on the Pharmacy Home page in Canvas. The appeal form provides the mechanism for submitting the Formal Letter of Appeal (LOA).
The form will automatically notify the following individuals: the chair of the PASP, the course coordinator and the student's faculty mentor, who will serve as a guide to the student during the appeal process.

If the appeal is regarding experiential education, the Office of Experiential Education will contact the preceptor to notify him/her/them of the grade appeal, and the preceptor is given the opportunity to participate in the appeal process. The Chair of PASP will be copied on this correspondence.

• If the preceptor elects to not participate in the appeal process, an administrator from the OEE will be responsible for representing the preceptor in the appeal process.
• If the preceptor elects to participate in the appeal process, he/she/they will receive a copy of the LOA and be in communication with PASP during the appeal process.

In the LOA, the student must demonstrate that it is more likely than not one or more of the following occurred, resulting in a negative impact on the student’s grade:

• Unfair grading (e.g. arbitrary, the grade that was earned was not based on objective criteria or the student was held to a different standard than their peers.);
• Procedural or clerical error

The PASP will convene to review all appeals within five business days of receiving the LOA.

• During the five days leading up to the review, at least two members of PASP must communicate with the course coordinator (and any preceptor who has elected to be included in the process) involved in the appeal to gather any and all pertinent information regarding the LOA (preferably in person, or on the phone). The course coordinator (and any preceptor who has elected to be included in the process) has the right to respond to the student’s allegations within the LOA.
• During the review, the PASP will invite the student, course coordinator, faculty mentor and other necessary persons to participate in the review. Invited persons may elect to not attend. Choice of attendance will not be taken into consideration as part of the review process.
• The PASP decision will be determined at the conclusion of its review.

Following the review, the Chair of PASP communicates the PASP decision in writing to the student, and copies the student’s faculty mentor, the OASA, and the course coordinator (and any preceptor who has elected to be included in the process) in a formal letter sent to the student via their Manchester email account.

• The student is permitted to appeal to the Dean of pharmacy and graduate life sciences the stipulations placed by the PASP committee and/or the PASP committee’s processing of the course grade appeal (i.e., that a procedural error occurred).

• Appeal to the Dean of Pharmacy and Graduate Life Sciences
• Within five business days of receiving the PASP decision, the student must submit a letter appealing the stipulations or process of the PASP decision via the Dean’s Manchester email account.
  • The student must copy the student’s faculty mentor, the course coordinator, and the chair of the PASP.
  • If the student fails to copy the aforementioned individuals, the appeal will not be reviewed, and the student has one business day to correct the error.
• Within five business days of receiving the appeal, the Dean will review the appeal.
• The Dean will conduct an independent investigation regarding the appeal and may collect any information necessary to render a decision.
• Following the review, the Dean communicates in writing the decision to the student, and will copy the student’s faculty mentor, the course coordinator, and the chair of the PASP in a formal letter sent to the student via their Manchester email account.
• The Dean is limited only to one of the following decisions:
  • The Dean may uphold the decision made by PASP without modification.
  • The Dean may uphold the decision made by PASP, yet modify the stipulations placed by PASP.
  • The Dean may reject the decision made by PASP based on the determination of a procedural error or unfair process.
    • In this instance, the Dean will convene a new ad-hoc PASP committee of the faculty to review the student’s course grade appeal.
    • The ad-hoc PASP faculty committee will follow the process outlined above.
• The decision of the ad-hoc PASP faculty committee is final.

Academic Policy and Progression Appeal Process
• The student is notified by the Office of Academic & Student Affairs of failure to meet requirements of an Academic Policy (e.g., inability to progress).
• Appeal to Pharmacy Academic Standards and Progression Committee (PASP)
  • Within five business days of receiving notification from the Office of Academic & Student Affairs, the student must submit the appeal form that is provided on the Pharmacy Home page in Canvas. The appeal form provides the mechanism for submitting the Formal Letter of Appeal (LOA).
    • The form will automatically notify the following individuals: chair of the PASP and student’s faculty mentor, who will serve as a guide to the student in the appeal process.
  • LOA must state what the policy that is being appealed and the grounds for the appeal.
    • If the appeal includes a grade appeal, one LOA must be submitted that will include both the grade appeal and the appeal of the academic policy, each clearly delineated. A student should only submit one LOA.
    • A course grade appeal that is submitted with an academic policy appeal will follow the procedures described for a course grade appeal.
      • The chair of the PASP will communicate any information regarding the course grade appeal with the course coordinator, or in the case of appeals regarding experiential education, an administrator from the OEE.
  • The PASP will convene to review all appeals within five business days of receiving the LOA.
    • During the five days leading up to the review, PASP will gather any necessary data and evidence regarding the student’s academic and professional performance including but not limited to: course grades, rotation evaluations, honor council records, etc.
    • During the review, the PASP will invite the student, faculty mentor, or other necessary persons to participate in the review. Invited persons may elect to not attend. Choice of attendance will not be taken into consideration as part of the review process.
    • The PASP decision will be determined at the conclusion of its review.
  • Following the review, the Chair of PASP communicates the PASP decision to the student and copies the student’s faculty mentor in a formal letter sent to the student via their Manchester email account.
    • The student, is permitted to appeal to the Dean of pharmacy and graduate life sciences the stipulations placed by the PASP committee and/or the PASP committee’s processing of the course grade appeal (i.e., that the committee did not adhere to the protocol outlined above).
• Appeal to the Dean of Pharmacy and Graduate Life Sciences
  • Within five business days of receiving the PASP decision, the student must submit a letter appealing the stipulations or process of the PASP decision via the Dean’s Manchester email account.
    • The student must copy the student’s faculty mentor and the chair of the PASP.
    • If the student fails to copy the aforementioned individuals, the appeal will not be reviewed, and the student has one business day to correct the error.
  • Within five business days of receiving the appeal, the Dean will review the appeal.
    • The Dean will conduct an independent investigation regarding the appeal and may collect any information necessary to render a decision.
  • Following the review, the Dean communicates the decision to the student and will copy the student's faculty mentor and the chair of the PASP in a formal letter sent to the student via their Manchester email account.
  • The Dean is limited only to one of the following decisions:
    • The Dean may uphold the decision made by PASP without modification.
    • The Dean may uphold the decision made by PASP, yet modify the stipulations placed by PASP.
    • The Dean may reject the decision made by PASP if the Dean determines that PASP’s decision was made unfairly or without following the outlined process.
      • In this instance, the Dean will convene a new ad-hoc PASP committee of the faculty to review the student’s original appeal.
      • The ad-hoc PASP faculty committee will follow the process outlined above.

The decision of the ad-hoc PASP faculty committee is final.

**Academic and Professional Conduct Committee**

Students are expected to abide by the general principles of academic integrity and a defined code of conduct representing the Pharmacy Program. The Academic and Professional Conduct Committee provides the framework to communicate the integrity and professionalism of all members of the Pharmacy Program (students, faculty, staff, and administration) community pertaining to academic training, as well as behaviors inside or outside of the classroom, that are deemed essential characteristics of a professional. The Academic and Professional Conduct Committee will consist of two primary articles: academic integrity and unprofessional behavior.

Academic integrity will feature six violation categories: cheating, plagiarism, facilitating academic dishonesty, abuse of academic materials, stealing, and lying. Unprofessional behavior will feature three categories of conduct: within the College, in experiential rotation settings, and within the Profession.

Students will affirm the Honor Code during new student (P1) orientation, typically as part of the White Coat Ceremony. Students will attest to this affirmation by signing the Honor Code. Students will reaffirm the Honor Code throughout their academic program. The Academic and Professional Conduct Committee will address violations of the Honor Code and other complaints against Doctor of Pharmacy students.

The entire Academic and Professional Conduct Committee process may be found in the Pharmacy Program Student Handbook.

**Graduation and Commencement**

A student will graduate from the Doctor of Pharmacy program when he or she has been judged by the faculty to have met all academic and professional requirements of the program, and has also:

• Completed all required courses, and the required number of elective courses, in the curriculum with a grade of C or better (or P)
• Completed all non-course requirements (e.g., co-curricular, community service and outreach, etc.)
• Passed all required competency assessments.

National and State Licensure Exams
Upon graduation students will be required to pass the North American Pharmacist Licensure Examination (NAPLEX), the Multistate Pharmacy Jurisprudence Examination (MPJE), or any other state required law exam before obtaining licensure.

• The NAPLEX, or North American Pharmacist Licensure Examination, measures a candidate’s knowledge of the practice of pharmacy. It is just one component of the licensure process and is used by the boards of pharmacy as part of their assessment of a candidate’s competence to practice as a pharmacist. For more information on the NAPLEX exam, visit http://www.nabp.net/programs/examination/naplex/.
• The MPJE, or Multistate Pharmacy Jurisprudence Examination, combines federal- and state-specific questions to test the pharmacy jurisprudence knowledge of prospective pharmacists. It serves as the pharmacy law examination in participating jurisdictions. Among other things, the MPJE tests candidates on (visit http://www.nabp.net/programs/examination/mpje/):
  o Legal aspects of pharmacy practice, including responsibilities with regard to the distribution and dispensing of pharmaceuticals and care of patients
  o Licensure, registration, certification, and operational requirements
  o Regulatory structure and terms of the laws and rules that regulate or affect pharmacists, pharmacies, manufacturers, and distributors

Advising, Mentoring and Student Success

Pharmacy S.M.A.R.T. Program
This program is a multi-faceted approach to supporting the success of all pharmacy students. A variety of services and programs have been implemented to support the mission and goals of Manchester University Pharmacy Program:

• S – Student (Peer) Mentor Program – each student will have a student mentor assigned prior to starting the program, serving as a valuable information and communication resource.
• M - Faculty Mentoring Program – each student will have a faculty mentor throughout their time in the program, serving as a valuable information and communication resource.
• A - Academic Support – includes programs, resources, and structures that promote all members of the community to learn efficiently and effectively, develop effective study strategies, and develop the critical thinking skills necessary to succeed academically.
• R - Referral System – an online system that provides an opportunity for concerned members of the Pharmacy Program community to reach out and offer help and assistance to students in the program.
• T - TeamWorks – Students will become more aware of the importance of teamwork through the annual creation of working teams within each cohort. These teams will be used throughout the semester or academic year in most courses.

Academic Check and Study Tables
The purpose of ongoing grade checks is to identify students throughout the semester/course who are in academic difficulty and provide them with resources and counseling to help them succeed in the program. Please see the Student Handbook for more details regarding the grade check and notification process.

Privacy and Student Records
Manchester University Pharmacy Program fully complies with the Family Educational Rights and Privacy Act of 1974, as Amended (FERPA), which establishes that a post-secondary student has the right to inspect and review his or her academic records, and prohibits outside parties from obtaining the information contained in
these records without the student’s written consent. However, a student may waive the right to review certain confidential information contained in his or her file.

The University collects, records and uses information about students to carry out its educational mission. The University recognizes its responsibility for protecting the privacy rights of students regarding their academic and personal records. Students are provided access to information contained in their own official education records, a procedure for correction or deletion of inaccuracies found in their records, and a degree of control over the release of information from their records.

Records of students and graduates are maintained in accordance with all applicable federal and state laws. The Registrar is responsible for maintaining and updating student files, which include application materials, transcripts from previously attended institutions, grades, and information related to academic and clinical performance in all phases of coursework. Faculty and administration have access to student files for legitimate educational purposes only.

Certain items of personal information are considered directory information and may be published without students’ permission. Directory Information items include name, dates of attendance, degrees earned, local and home address, email address, phone number, major, participation in officially recognized activities and sports, height and weight and honors received.

A student has the right to request in writing, prior to the first day of classes of any semester, that any item listed as directory information not be released without his/her consent.

Procedures for student access to records may be obtained from the Office of the Registrar.

**Student Services**

**Information Technology Services (ITS)**
The Manchester University Pharmacy Program incorporates a great deal of information technology. The Canvas support system can answer any questions relating to the learning management system. The Information Technology Services department supports all computer and network technology for the program. The following is the contact information for these services:

- **Canvas Support**
  For assistance with Canvas, please use the Canvas Support System.
  Email: canvashelp@manchester.edu
  Chat: available within Canvas, located in the menu bar
  Phone: 1-877-227-9487

- **Respondus Lockdown Browser**
  This tool is frequently used for quizzes given in Canvas. For more information about Respondus Lockdown Browser, please see Student Resources and Support. Please note that Manchester University has already installed Respondus on your laptop, but you are responsible for making sure the program is up-to-date.

- **ExamSoft/Examplify**
  ExamSoft is the application that faculty use to create secure exams. Examplify is the ExamSoft program that students will use to download, take, and submit exams. For basic instructions on using Examplify, please see the Help Videos page.

- **ITS Check Out**
  Equipment spares are on hand at the Helpdesk. Students can borrow laptops, chargers, privacy screens, network cables, and more. An ID card, or other collateral, must be left at helpdesk while equipment is out.
• Laptop Support
Software problems with your university-issued laptops can be repaired by Helpdesk and almost any form of physical damage to a university-issued laptop is covered under Manchester’s warranty policy. Make sure to contact Helpdesk first with any laptop problems you encounter.

• Help Desk Contact Information & Hours
For assistance with computer software or services provided by Manchester University (including password retrieval), please contact the Information Technology Services (ITS) Help Desk using one of the methods below.

Please note that a request for ITS help can be made at any time (24/7) using the ticket submission system. The link to the ticket submission system is located below, and within every Canvas course. The tickets will be monitored at all times and responded to within 12 hours of the ticket submission. This includes times that the Help Desk is closed.

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<tr>
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<td><a href="mailto:helpdesk@manchester.edu">helpdesk@manchester.edu</a></td>
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<tr>
<td>Phone:</td>
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Library Resources
The library provides materials to serve the University curriculum, bibliographic and interlibrary loan support for research and instruction in the use of information sources. Library services are available on site, as well as online through the Funderburg Library website (www.manchester.edu/Library)

The Drug information Center on the Fort Wayne campus provides a print and electronic library collection that students may use. Students will be able to use the electronic collection within the main library website and will also have access to a designated page https://accesspharmacy.mhmedical.com/ specifically for the program coursework. The print collection will be housed in the Drug Information Center as reference material.

Disability Support Services
In compliance with Section 504 of the Rehabilitation Act and the ADDAA, Disability Support Services provides support services to students with documented disabilities to give them equal access to academic programs and participation in the total Manchester experience. If a student has a recognized physical, learning, sensory or psychological disability or medical impairment, they can access tools and resources to help them succeed academically and personally at Manchester.

The disability support coordinator within the Academic Support department oversees the process which includes reasonable accommodation, student consultations, and promotion of self-advocacy skills. In addition, the administrative assistant for the office of academic & student affairs will coordinate exam proctoring.

Financial Aid
Students must file the Free Application for Federal Student Aid (FAFSA) for consideration of federal direct student loan eligibility. Questions about financial aid should be addressed to Student Financial Services, Manchester University, 604 E. College Ave., North Manchester, Indiana 46962. Phone: 260-982-5066.
People of MU Pharmacy Program

Cabinet, 2021-2022

President
David F. McFadden, Ph.D.

Vice President for Academic Affairs
Celia-Cook Huffman, Ph.D.

Vice President for Student Life
Abby Van Vlerah, Ph.D.

Vice President for Advancement
Melanie B. Harmon

Vice President for Enrollment and Marketing
Ryon Kaopuiki

Vice President for Health Science Initiatives
Lea A. Johnson, Ed.D.

Chief Business Officer and Vice President for Finance
Clair W. Knapp

Dean of Pharmacy and Graduate Life Sciences
W. Thomas Smith, Pharm.D.

Faculty

Ryan Ades, Pharm.D., RPh, director of experiential education, assistant professor of pharmacy practice
Teresa Beam, Ph.D., associate dean of graduate life sciences, professor of pharmaceutical sciences
Robert D. Beckett, Pharm.D., RPh, BCPS, assistant dean for assessment, director of Drug Information Center, associate professor of pharmacy practice
Tracy L. Brooks, Pharm.D., RPh, BCNSP, associate professor of pharmacy practice
Dennis Brown, Ph.D., associate professor of pharmaceutical sciences
Diane Calinski, Ph.D., vice chair, department of pharmaceutical sciences, associate professor of pharmaceutical sciences and pharmacogenomics
Jennifer A Campbell, Pharm.D., RPh, associate dean for academic programs, professor of pharmacy practice
Joseph Chambers, Ph.D., assistant professor of pharmaceutical sciences & pharmacogenomics
Teresa DeLellis, Pharm.D., RPh, BCPS, BCGP, associate professor of pharmacy practice
Sarah Gordon, Pharm. D., RPh, BCPS, associate professor of pharmacy practice, IPE coordinator
Melissa Gratz, PH.D., MBA, assistant professor of pharmacy practice
Kierstan Hanson, Pharm. D., RPh, associate professor of pharmacy practice, wellness and inclusion coordinator
Sandra Hrometz, PhD, BS Pharm., CGP, professor of pharmaceutical sciences and pharmacogenomics
Jason Isch, Pharm.D., assistant professor of pharmacy practice
David Kisor, Ph.D., director of pharmacogenomics, professor of pharmaceutical sciences
Cole Luty, Pharm.D., BCPS, assistant professor of pharmacy practice
Kathryn Marwitz, Pharm.D., assistant professor for pharmaceutical sciences
Renee McCafferty, M.S., Pharm.D., associate professor of pharmacy practice
Andrea Mekonnen, Pharm.D., assistant professor of pharmacy practice
Noha Mourad, Ph.D., assistant professor of pharmaceutical sciences and pharmacogenomics
Marwa Noureldin, Pharm.D., M.S., Ph.D., BCGP, assistant professor of pharmaceutical sciences
<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Holly Robison, Pharm.D., RPh, BCPS</td>
<td>assistant professor of pharmacy practice</td>
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<td>Raylene Rospond, Pharm.D., FCCP</td>
<td>associate dean of clinical affairs and outreach, chair, department of</td>
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<td></td>
<td>pharmacy practice, professor of pharmacy practice</td>
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<td>Ann Savariar-Drummond,</td>
<td>instructor of pharmacogenomics</td>
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<td>Thomas Smith, Pharm.D., RPh, BCPP</td>
<td>associate professor of pharmacy practice and pharmacogenomics</td>
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<td>W. Thomas Smith, Pharm.D., J.D.</td>
<td>dean of pharmacy and graduate life sciences, professor of pharmaceutical sciences</td>
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<td>Trent Towne, Pharm.D., RPh, BCPS, (AQID)</td>
<td>vice chairs, department of pharmacy practice, associate professor of pharmacy practice</td>
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<td>Andrea L. Wilhite, Pharm.D., RPh</td>
<td>associate professor of pharmacy practice</td>
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<td>Paula Avila,</td>
<td>laboratory technician specialist</td>
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<td>Julie Cogley-Pifko,</td>
<td>assistant director of admissions and enrollment management for pharmacy programs</td>
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<td>Celia Elder,</td>
<td>administrative assistant, experiential education; DSO</td>
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<td>Karen Failor,</td>
<td>experiential education operations specialist</td>
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<td>McKenzie Gould,</td>
<td>graduate admissions advisor</td>
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<td>Olan Griffiths,</td>
<td>help desk manager</td>
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<td>Gregory Hetrick,</td>
<td>assistant dean of enrollment management and community engagement</td>
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<td>Pam Karkosky,</td>
<td>administrative assistant, admissions and enrollment management and MAT</td>
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<tr>
<td>Michelle Cordova-Kibiger,</td>
<td>director of assessment for pharmacy programs</td>
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<td>Laura Kozlowski,</td>
<td>senior administrative assistant</td>
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<tr>
<td>Sarah Lauck,</td>
<td>academic and student affairs coordinator</td>
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<tr>
<td>Jessica Montalvo,</td>
<td>director of student services for pharmacy programs</td>
</tr>
<tr>
<td>Shawn Patterson,</td>
<td>executive assistant to the dean</td>
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<tr>
<td>Melissa Rasmussen,</td>
<td>director of instructional design for pharmacy programs</td>
</tr>
<tr>
<td>Kody Shoemaker,</td>
<td>custodian and maintenance tech</td>
</tr>
<tr>
<td>Brook Schumann,</td>
<td>pharmacy practice lab coordinator</td>
</tr>
<tr>
<td>Tayshia Turner,</td>
<td>campus facilities coordinator &amp; human resources liaison</td>
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</tbody>
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