



Missions and Values Statements

Mission Statement

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.

Origins and Traditions

Manchester University traces its origin to the Roanoke Classical Seminary founded by the United Brethren Church in Roanoke, Ind., in 1860. The Seminary became Manchester College in 1889, when it was moved to North Manchester, Ind. In 1895, the campus was purchased by representatives of the Church of the Brethren, who deeded it to four state districts of the Church in 1902. The number of supporting districts increased until, by 1932, Manchester served the five-state area of Indiana, Ohio, Michigan, Illinois and Wisconsin.

Rapid growth of the public high school and increasing interest in higher education resulted in a gradual shift of emphasis from an academy and Bible school to a college of liberal arts. The academy was discontinued in 1923.

Mount Morris College in Mount Morris, Ill., merged with Manchester College in 1932. Founded as a Methodist seminary in 1839, Mount Morris had been purchased by representatives of the Church of the Brethren in 1879 and operated as the Rock River Seminary and College Institute until 1884, when the name was changed to Mount Morris College. The merger of Mount Morris College and Manchester College came about when the Church of the Brethren decided its educational program would be strengthened by pooling its resources in fewer colleges. Manchester College became Manchester University on July 1, 2012.

The relationship of Manchester University with the Church of the Brethren continues. The University accents this relationship and welcomes students of all faiths.

Accreditation

Manchester University is accredited by The Higher Learning Commission and has been a member of the North Central Association of Colleges and Schools (30 N. LaSalle, Suite 2400, Chicago, IL 60602, 800-621-7440, (www.ncahigherlearningcommission.org) since 1932. The undergraduate and graduate level Athletic Training programs are accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

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.

Administration of Graduate Programs

The Office of Academic Affairs and Student Affairs works with the Graduate/Professional Curriculum and Assessment Committee and the Pharmacogenomics (PGx) Council to determine and administer the graduate program policies. The Director of Pharmacogenomics chairs the PGx Council.

Community Behavior Standards

University, College, and program policies help to describe the campus community we are seeking. They offer a rationale for community guidelines, identify the limits of acceptable behavior, call community members to be accountable to each other, and create and maintain a positive community.

There are three principles which form the framework of the policy statement: respect for others, safety and security, and community expectations. As responsible members of the community, students, staff and faculty are expected to support and practice these principles, and the specific policies based on them, and to hold others accountable as well

These policies apply on University properties – North Manchester and Fort Wayne campuses, including University-owned vehicles, Koinonia Environmental and Retreat Center – and to all students, faculty and staff, as well as guests of the University.

These policies apply year-round – not only when school is in session.

While the policies are designed to respond to behavior on campus, students' behavior off campus is a concern to the University, College and program. The program will take action when behavior has a direct impact on the program environment or on the reputation of the program, or when the behavior is of such gravity that the program would be remiss not to do so.

Consistent with the Missions of Manchester University, members of the Manchester community are expected to demonstrate respect for others and an appreciation for the worth of every person. All members of the University community share responsibility for maintaining a quality campus environment. Ignoring actions or activities that disrupt or violate community guidelines damages our environment and infringes upon the rights of individuals.

Academic Policies

Matters upon which there are no specific policy statements for graduate students are governed by general regulations of the University.

Advising

Faculty and staff of the graduate programs will advise students in the corresponding graduate program area. Students should consult with identified faculty and staff regarding questions about graduation requirements and related matters. Each student has the ultimate responsibility for monitoring his or her own graduation requirements.

Registration

Students must be officially admitted to a graduate program before enrolling in graduate courses. Manchester University reserves the right to cancel classes due to insufficient enrollment. Questions about classes and registration may be addressed to the Office of Academic and Student Affairs for Pharmacy Programs or the Registrar. To qualify for financial aid for online courses, students must register for all course work within the semester before the beginning of the semester, regardless of when the course starts during the semester.

Enrollment Verification

Upon entry into each course, students must verify their enrollment. In on campus courses, enrollment verification will be completed by the instructor. In online courses, enrollment verification will be completed using a low-stakes assessment or activity in the learning management system.

Transfer of Credit

MACCT

A maximum of three semester hours of undergraduate credit taken at another regionally accredited college or university may be transferred and applied toward the undergraduate accounting major, provided that such credit is approved by the program director and the registrar. Graduate credit cannot be transferred, and credit cannot be earned through proficiency examinations.

MS in MAT

A maximum of six semester hours of graduate credit taken at other regionally accredited graduate schools may be transferred and applied toward the MAT, provided that such credit is approved by the appropriate program director and the registrar. Credit cannot be earned through proficiency examinations.

MS in PGx

A maximum of 8.5 semester hours of graduate credit taken at other regionally accredited graduate schools and/or credit for previous learning, may be transferred and applied toward the MS in PGx, provided that such credit is approved by the appropriate program director and the registrar. Credit cannot be earned through proficiency examinations. The process for transfer credit consideration must follow the process found in the MS in PGx Student Handbook.

External coursework may be considered for transfer credit if all the following conditions are met:

- The course work is completed at a regionally accredited institution.
- The course work is substantially similar to Manchester courses.
- The final grade posted for each potential transfer course is a 'B' grade (or better).
- The course work does not duplicate, overlap, or regress previous work.
- The university or college offering the courses allows these courses to be used for credit towards its own Master's degree.
- No more than 8.5 credits for work completed elsewhere may be counted toward the Master's degree. The 8.5 credit limit applies to transfer of credits and credit for prior learning.
- The transfer work must first be officially approved by the PGx Council, then accepted by the University Registrar. Students should contact the Director for Pharmacogenomics directly for additional details regarding transfer credit policies.
- In order for approved transfer credit to be awarded, students must submit an official transcript that clearly indicates all of the following information for each course:
 - Course codes or numbers
 - Course titles or descriptions
 - o Final grades earned
 - Course credits earned
 - Process

All requests for transfer credit and official transcripts should be submitted to the Director of Pharmacogenomics no later than one month prior to the start of the academic semester.

If approved, transfer credits are processed by the University Registrar once the semester begins.

International/Abroad Institutions

- Students requesting transfer credit pre-approval or evaluation of course work
 completed at an international institution prior to enrolling at Manchester University, all
 information below must be submitted along with the transfer credit evaluation request
 in order for an assessment to be completed. Please note that all documentation must be
 in the English language (or all documentation must have a certified English translation).
- Students must provide official documentation that clearly states:
 - The Institution's accreditation (must be officially recognized)
 - The Institution's grading scale or system. Note: if a course has a 'P' or 'Pass' grade listed, then the grading scale must explicitly state what the minimum

grade is to earn a passing grade. Pass grades are accepted only for courses for which letter grades were not an option and for which the standard of passing is 'B' quality work.

- o The Institution's credit system (quarter, ECTS, semester)
- The minimum number of credits required to complete the Master's program at the Institution (this must be from an official source, such as a course catalog)
- The level of coursework (transfer credit can only be awarded for college-level work)
- Students are encouraged to purchase a third-party, course-by-course international transcript translation and evaluation service, as most of these services include all of the abovementioned information. Some examples of these services are:
 - World Education Services (http://www.wes.org/students/)
 - FIS (Foundation for International Services, Inc.) (https://www.fis-web.com/course-by-course-evaluations)
 - Educational Credential Evaluators (https://www.ece.org/SiteMain/28/49)
 - International Education Services by AACRAO
 (http://ies.aacrao.org/evaluations/appform.php?type=ind)

Credit for Prior Learning

Only applies to the MS in PGx

Credit for prior learning (CPL) is used to award students credit for demonstrated mastery through experiential learning or other experiences. Students earn college credit for work experience, life experience, independent studies, or licensures and certifications. The maximum number of credits that can be awarded is 8.5 credit hours. The 8.5 credit hour limit includes both transfer of credits and credit for prior learning.

The method used to demonstrate mastery of a topic is determined by the course coordinator and course faculty members. Potential methods include, but are not limited to, an exam based on the material in the specialty area or the submission of a portfolio of work that demonstrates mastery of a topic. The PGx Council will review CPL applications and determine award of CPL. The CPL review process can take up to three months. For additional details, contact the Director for Pharmacogenomics and consult the CPL Handbook.

If awarded CPL, the student will receive a grade of "PR" indicating proficiency for the topic. A grade of "PR" does not count towards the GPA of the student. A student does not need to pay for credits earned through CPL.

Student Load

The credit load for a full-time student is 9 credits per semester.

MACCT

Full-time enrollment in the Master of Accountancy program is 12 or more semester hours per semester. Students may not enroll in more than 18 semester hours in the fall or spring semesters, 16 semester hours in summer, eight semester hours in a single summer session, or four semester hours in a single January session. Students who have already completed a bachelor's degree at another regionally accredited college or university will work with the program director to develop an individualized plan for completing the required course work.

Auditing Courses

Graduate students may, with permission of the program director, audit graduate courses for no credit or grade. Registration is required and official audits will be recorded on the student's academic record. Audit fees per course are equivalent to tuition and fee charges for credit courses. While not responsible for required course assignments and examinations, students auditing a course are expected to attend class and participate. Changes in status from audit to credit are not permitted.

Repeating Courses

Students receiving a deficient grade in a given course may repeat the course one time. Failure to successfully complete a course taken a second time will result in dismissal from the program. The last grade received is counted in the cumulative grade point average. For additional information, contact the Office of Academic Affairs and Student Affairs for Pharmacy Programs.

Course Numbering System

Courses numbered at the 500 and 600 level are open for credit only to graduate students admitted into a graduate program or graduate certificate studies.

Grading System

A four-point grading system is used to compute grade point averages for graduate work. The grading system for graduate courses is noted below.

Grade Description Grade Points

A Highest passing grade 4.00

В		3.00
С	Lowest passing grade	2.00
F	Failure	0.00

Other grading symbols

- I Incomplete*+ (Temporary grade)
- PR Proficient (Awarded for credits for prior learning, standards outlined above)
- NR Grade not reported*

(Temporary grade) Course extends beyond end of semester/session.

- UW Unauthorized Withdrawal (Failure, F)
- W Withdrawn Passing
- WF Withdrawn Failing (F)

Change of Registration

On-campus students can make adjustments to their schedules without completing specific paperwork during the first three days of the fall, spring, or summer semester. Online students can make adjustments to their schedules the first three days of the course. These dates are designated as Change of Course days. Changes made after the official Change of Course days require submission of the Change of Course form to the Office of the Registrar. Students are responsible for ensuring they are properly enrolled in courses.

Withdrawal from a Course

A student may withdraw during the first two-thirds of a course, receiving a grade of W. Withdrawing later in the course will result in a grade of WF. A student who does not withdraw but stops attending class receives a grade of UW. Contact the Office of the Registrar for course withdrawal instructions. See "Student Financial Services" below or contact Student Financial Services for information regarding refunded tuition. For on-campus students, withdrawing

^{*}Work must be completed by the midsemester date of the next regular semester, otherwise a failure (F) is recorded.

⁺The course coordinator is responsible for evaluating if an incomplete is appropriate and has the sole discretion to award the incomplete or not.

from a course will likely result in the student being removed from their cohort relative to graduation from the program. Students may be considered for enrollment in the subsequent years' cohort, being on an alternate plan of progression.

Incompletes

An incomplete grade may be assigned at the end of a semester when conditions beyond the control of the student preclude completing coursework. In such cases the student must be doing passing work and must be able to complete the unfinished work without further class attendance. Students in on-campus programs must complete required work by the midsemester date of the next regular semester; otherwise, an F is recorded. Students in online programs must complete required work within one year; otherwise, an F is recorded.

Academic Good Standing

PGx:

A student who earns an "F", is placed on academic probation and must meet with the Director of Pharmacogenomics and is allowed to repeat any failed course one time.

A student who falls below a 3.0 grade point average following completion of 6 credit hours will be placed on academic probation for the following 6 credit hours that are completed. Only one period of academic probation for a student will be allowed during the course of study. During the academic probationary period, the student must meet/communicate with the Director of Pharmacogenomics to discuss the probation. If the student does not achieve a 3.0 grade point average upon completion of the academic probationary period, the student will be dismissed from the program.

MAT:

A minimum grade point average of 3.00 is required for good standing in the graduate program. The Program Director will review the academic progress of all graduate students at the end of each semester, January Session and summer sessions. Any student falling below a 3.00 grade point average in any term after the first fall semester will be disqualified.

MACCT:

A minimum grade point average of 3.0 is required for good standing in the MACCT program. Any student falling below a 3.0 grade point average will be placed on academic probation for the following semester. If the student does not achieve a 3.0 at the end of the following semester, the student will be disqualified.

Dual Degree (MS in PGx and Pharm.D.)

Pharmacy students must maintain academic good standing in the Doctor of Pharmacy program. If a student fails to remain in good standing, they will be dismissed from the MS in PGx program.

Withdrawal from the Program

To withdraw from a program, the student must email the Registrar (registrar@manchester.edu) from their Manchester University email account. Although not required, it is suggested that the student first discuss the withdrawal with the program directors, and that the student copies the Academic and Student Affairs Coordinator for Pharmacy Programs while emailing the Registrar.

Petitions for Special Action

Students who believe extenuating circumstances merit consideration may petition the University Academic Standards Committee for exceptions to stipulated policies and regulations. Action on petitions will be taken only at regular meetings of the University Academic Standards Committee and will not be considered as a precedent for any future action. The decision of the University Academic Standards Committee is final, and no further appeal procedure shall exist within the University.

Academic Dishonesty & Grievance

Membership in the Manchester University community requires a devotion to the highest principles of academic and personal integrity, a commitment to maintain honor, and a continuous regard for the rights of others. There can be no rights without individual responsibility.

Manchester University faculty are committed to teaching and learning as a career and a profession. Each instructor is presumed to develop and use methods and techniques which enhance learning, and which best fit his or her personality and subject matter area. At the same time, the instructor is expected to abide by the general principles of responsible teaching which are commonly accepted by the academic profession. These principles suggest that faculty keep complete records of student performance and that they develop and apply express, uniform criteria for evaluating student performance.

Students are free to take reasoned exception to the data or views offered in any course of study. While they may reserve judgment about matters of opinion, they are responsible for learning the content of any course in which they are enrolled. At the same time, students are expected to abide by the general principles of academic honesty which are commonly accepted in educational settings.

When a student chooses not to follow the general principles of academic honesty, the following policies and procedures will apply.

Academic Dishonesty Policy

The Academic Dishonesty Policy applies in cases of plagiarism or cheating as defined below.

Plagiarism

Plagiarism is the presentation of information (either written or oral) as one's own when some or all of the information was derived from some other source. Specific types of plagiarism encountered in written and oral assignments include the following:

- Sources have been properly identified, but excerpts have been quoted without proper use of quotation marks; or the material has been slightly modified or rephrased rather than restated in the student's own words.
- Key ideas or items of information derived from specific sources that present material that is not common knowledge have been presented without proper identification of the source or sources.
- Unidentified excerpts from other sources have been woven into the student's own presentation.
- A paper or speech may be a mosaic of excerpts from several sources and presented as the student's own.
- An entire paper or speech has been obtained from some other source and presented as the student's own.
- Texts in another language are translated into English and presented as the student's own.

Cheating

Cheating consists of any unpermitted use of notes, texts, screen shots, or other sources so as to give an unfair advantage to a student in completing a class assignment or an examination. Intentionally aiding another student engaged in academic dishonesty is also considered cheating. Submission of the same work (essay, speech, art piece, etc.) to fulfill assignments in separate classes requires the permission of both instructors (if both courses are being taken in the same semester), or the permission of the second instructor (if they are taken during different semesters).

Academic Dishonesty Procedures

In a case of academic dishonesty, the instructor shall send a letter documenting the deception to the student (via e-mail and hard copy to student mailbox or home address), with copies emailed to the Director of the relevant program, and the student's academic advisor if applicable.

- In cases of a first offense, the Director/Dean will contact the instructor to determine if grade sanctions have been applied and if the instructor wishes the University Academic Integrity Committee/Graduate Professional Curriculum and Assessment Committee to review the case and consider additional sanctions. The Director/Dean will send a letter outlining the seriousness of academic dishonesty and the consequences of a second offense to first offenders not going through the University Academic Integrity Committee/Graduate or Professional Curriculum and Assessment Committee review.
- In cases of a first offense, students who wish to appeal an instructor-imposed sanction may request a University Academic Integrity Committee/Graduate or Professional Curriculum and Assessment Committee hearing.
- If requested by the instructor in cases of a first offense, or for any subsequent offenses,
 the chair of the University Academic Integrity Committee will convene a meeting
 consisting of the committee members, and one graduate student selected by the
 candidate's program director. The chair will vote only in cases of a tie. The chair will
 schedule a hearing with the student and the University Academic Integrity
 Committee/Graduate or Professional Curriculum and Assessment Committee within two
 weeks of receipt of the tracking form. A registration "hold" will be placed in effect until
 the hearing has occurred.
- Following the hearing the chair will inform the student and the instructor who filed the
 report of dishonesty of the University Academic Integrity Committee/Graduate or
 Professional Curriculum and Assessment Committee 's decision in writing. The chair will
 inform the registrar of any action which affects enrollment (i.e. suspension or
 expulsion).

Penalties

The instructor has the sole discretion to impose specific grade sanctions such as failure of the assignment or failure of the course for any incident of academic dishonesty. When a failing grade for the course is imposed, the student will not be allowed to withdraw from the course with a grade of W.

- For a first referred offense, the University Academic Integrity Committee/Graduate
 Professional Curriculum and Assessment Committee has the discretion to impose
 disciplinary sanctions such as a letter of apology, monetary fine or community service
 requirement in addition to any grade sanction imposed by the instructor.
- For a second or subsequent offense, a University Academic Integrity
 Committee/Graduate or Professional Curriculum and Assessment Committee hearing
 will occur, whereby additional sanctions up to and including suspension or expulsion
 from the University could be applied.

Due Process

Students shall have a right to due process. This shall include the right

- To be informed of the nature of the violation.
- To a fair hearing of the evidence leading to a decision in the case.
- To be accompanied to any hearing by a faculty or administrative staff member from the University campus community.
- To request an appeal based only on due process or new, exculpating evidence.

Appeal

An appeal for an academic dishonesty decision may be made ONLY with the vice president of academic affairs and ONLY on the basis of due process violations or the discovery of new, exculpating evidence. A request for appeal must be made with the vice president of academic affairs within five days of receipt of the University Academic Integrity Committee/Graduate or Professional Curriculum and Assessment Committee 's decision.

Academic Grievance Policy

The Academic Grievance Policy pertains only to cases in which a student believes the final course grade has been assigned in a capricious or unfair manner. Grievances unrelated to academic performance may be brought directly to the Office of Academic and Student Affairs/Office of Academic Resources

Academic Grievance Procedures

- The student and the instructor should discuss the student's grievance and make every
 effort to reach a satisfactory solution. A mutually agreed upon third party may be
 invited to observe the meeting.
- If an agreement cannot be reached, the student will bring the issue to the Director of Pharmacogenomics. Final course grade grievance must be brought before the director no later than March 1 for fall semester and January session grades, and October 1 for spring semester and summer session grades.
 - The program director will request a detailed written summary from each party.
 - The program director will inform the vice president of academic affairs of the grievance.
 - The program director will meet with both parties together, listen to their concerns and attempt to resolve the grievance.
 - If an agreement is reached, the program director will inform the vice president of academic affairs of the result in writing. The written summaries will be

forwarded to the Office of Academic and Student Affairs/Office of Academic Resources.

Exception: If the involved instructor is the program director, the program director will request that the vice president of academic affairs appoint another graduate program director to hear the concerns and attempt to resolve the grievance.

- If an agreement cannot be reached through the program director, the student may initiate the formal grievance procedure.
 - The student will obtain an Academic Grievance form from the Office of Academic and Student Affairs/Office of Academic Resources.
 - The completed form will be forwarded by the student to the Office of Academic and Student Affairs/Office of Academic Resources
 - The University Academic Standards Committee/Graduate Council (or their designated representative) will review the grievance only if procedures 1 & 2 have been completed. The written summaries initially provided to the program director can be used by the University Academic Standards Committee, Graduate Council and/or the committee may wish to interview both parties individually.
 - The University Academic Standards Committee/Graduate Council will render a final decision.

Exception: If the involved instructor is a member of the University Academic Standards Committee, the vice president of academic affairs will appoint a full-time faculty member from the same division to replace the involved instructor while the grievance is being reviewed or discussed, and a decision is being made. If the involved instructor is the academic dean, the chair of the University Academic Standards Committee will request that the president of the University appoint a full-time faculty member to replace the vice president of academic affairs while the grievance is being reviewed or discussed, and a decision is being made.

Professionalism Expectations and Procedures

Professional Behavior

All individuals are expected to behave professionally. Unprofessional behavior includes any act or omission that is unethical or improper, and/ or in violation of any local, state, or federal laws and regulations. This includes unlawful or untoward actions that may result from substance abuse, including but not limited to: unlawful and unauthorized manufacture, distribution, dispensation, possession or use of narcotics, controlled substances, illicit drugs or alcohol.

Unlawful and illicit for these purposes means in violation of federal, state or local regulations, policy, procedures, and rules, including legal statutes. Educational setting means University or College operated buildings and grounds or while conducting University or College business away from the actual premises, including experiential or service- learning sites. Professional activities relate to professional meetings.

Students in the MU Master of Science in PGx Program are expected to demonstrate professionalism and integrity during class in service settings and in their personal lives. Whether attending a meeting, going to a continuing education program, or participating with other organizations, you are representing the Program, College, and University at all times. Strive to be the example that others may look up to and emulate.

Civility

An environment conducive to learning depends on behavior of mutual respect among students, faculty, administration, and staff. The Program does not tolerate disrespect or lack of civility toward any member of the College community. Lack of civility includes inappropriate verbal, written, or e- mail remarks that disrespect, harass, discriminate, intimidate or demean the character of another individual.

Professionalism Violation Procedures

In a case of a professionalism violation, the instructor shall send a report documenting the deception to the student (via e-mail), with copies emailed to the program director, and the chair of the University Academic Integrity Committee/ Graduate Professional Curriculum and Assessment Committee

Penalties

The instructor has the sole discretion to impose specific grade sanctions such as failure of the assignment or failure of the course for any unprofessional behavior. When a failing grade for the course is imposed, the student will not be allowed to withdraw from the course with a grade of W.

- For a first referred offense, the University Academic Integrity Committee/Graduate
 Council has the discretion to impose disciplinary sanctions such as a letter of apology,
 monetary fine or community service requirement in addition to any grade sanction
 imposed by the instructor.
- For a second or subsequent offense, a University Academic Integrity
 Committee/Graduate Council hearing will occur, whereby additional sanctions up to and including suspension or expulsion from the University could be applied.

Preparation for Graduation and Participation in Commencement

Degrees are conferred at the end of the semester following completion of the required credit hours. Diplomas are awarded at the May commencement.

No diploma or transcript will be released until all financial obligations to the University have been met.

Time Limit

MAT: All requirements for the MAT degree must be completed within three years of admission to the program or the date of enrollment in the first graduate course at Manchester University, whichever is later.

MS in PGX: The academic certificate must be completed within two academic years of the start date of the program. The on-campus program must be completed within two academic calendar years of the start date of the program. The online program must be completed within five academic calendar years of the start date of the program.

Enrollment Status

An on-campus student must complete fifty-one percent (51%) or more of the MS in PGx course work on campus.

An online student must complete fifty-one (51%) or more of the MS in PGx course work online. Online students in the MS in PGx program will be automatically withdrawn from the program if the student does not complete any course work during five (5) consecutive half-semesters. If a student is automatically withdrawn from the program, the student is eligible to return to the program, but must reapply using the Admission Process outlined above.

A student may change enrollment status from online to on campus or from on campus to online one time during the duration of the program, if needed. The request to change enrollment status is processed by the PGx Council, following the submission of the request to the Director for Pharmacogenomics.

Student Services

Financial Aid

Students must file the Free Application for Federal Student Aid (FAFSA) for consideration for 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.

Financial Policies

Payment of University Charges

Semester payments are due May 5 for the summer session, August 5 for the fall semester, and January 5 for the spring semester. A monthly payment plan is available beginning with an April 5 start date.

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. http://www.manchester.edu/sfs/
- 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 2.75% 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 a Spartan Payment Plan with interest- free, monthly payments. The monthly payment plan begins April 5 to allow for equal number of installments. Login to the Student Account Center and click Payment plans for details and enrollment. Additional information available at http://www.manchester.edu/sfs/spartanpayplan.htm
- 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 on the lower level of the Administration building 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.

Refund of Tuition/Fees

In the case of official withdrawal from the University, a refund, less a cancellation fee, is made according to the following schedules:

On campus Pharmacogenomics summer, fall and spring semester refund schedule:

- Withdrawal before the official start of classes: 100 percent refund
- Withdrawal during first three (3) days: 100 percent refund less \$250 cancellation fee
- Withdrawal during the first and second weeks (4-10 class days): 75 percent refund
- Withdrawal during the third and fourth weeks: 50 percent refund
- Withdrawal during the fifth and sixth weeks: 25 percent refund
- Withdrawal after the sixth week: NO REFUND

On campus Master of Athletic Training fall and spring semester refund schedule:

- Withdrawal before the official start of classes: 100 percent refund
- Withdrawal during Change of Course days: 100 percent refund less \$250 cancellation fee
- Withdrawal during the first and second weeks (4-10 class days): 75 percent refund
- Withdrawal during the third and fourth weeks: 50 percent refund
- Withdrawal during the fifth and sixth weeks: 25 percent refund
- Withdrawal after the sixth week: NO REFUND.

On campus Master of Athletic Training summer semester refund schedule:

- Withdrawal before the official start of classes: 100 percent refund
- Withdrawal during Change of Course day: 100 percent refund
- Withdrawal during class days 1 4: 75 percent refund
- Withdrawal during class days 5 8: 50 percent refund
- Withdrawal during class day 9 12: 25 percent refund
- Withdrawal after class day 12: NO REFUND

Information Technology Services (ITS)

The Master of Science in Pharmacogenomics program incorporates a great deal of information technology. The Canvas support system can answer any questions relating to the learning management system. 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

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.

		Response Time
Web:	https://service.manchester.edu	
To submit a ticket:	https://service.manchester.edu/incidents/new.portal	Within 12 hours of ticket submission
Email:	helpdesk@manchester.edu	Varies
Phone:	1-260-470-2727	Immediately, if available Hours are Monday- Friday, 8am – 5pm EST

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 (http://libguides.manchester.edu/pharmacogenomics) specifically for the program coursework. The print collection will be housed in the Drug Information Center as reference material.

Campus Communication

The Manchester University email address is the official method of electronic communication with all students.

Campus Policies

Manchester University has policies and guidelines that define the actions of the University community and govern both the rights and the expectations of its members. *The Source*, the student handbook, provides a listing and rationale for all policies that apply to members of the University community. More details are available at:

www.manchester.edu/ img/thesource.pdf.

Students who seek admission should be aware of University regulations and be prepared to abide by these policies while enrolled at Manchester University.

The University reserves the right to dismiss or suspend any student at any time when, in the judgment of University authorities, such action is advisable. Upon registration at Manchester University, the student expressly concedes this right to the University. It is understood that attendance at Manchester University is a privilege, not a right, and that this privilege may be withdrawn in the case of any student who does not adhere to the objectives or policies of Manchester University.

Automobile Regulations

The use of automobiles and other vehicles on the campus is governed by regulations published in *The Source*. All students, faculty and staff members' cars must be registered and bear the identification decal/hang tag, obtained at the Department of Campus Safety, Clark Computer Center. Vehicle owners will be held responsible for the proper use of their cars, even when driven by other people.

Health Records

All students are required to have completed a Health Record which includes personal history, physical, and immunization record (required: meningitis, two measles, mumps, and rubella, tetanus-diphtheria within 10 years and tuberculin skin test within the last year). The Health Record form is sent to the student from the Office of Health Services prior to enrollment. It is

also located on the Health Service web site. The completed Health Record form must be on file with the University prior to the start of first semester classes.

Privacy and Student Records

Manchester 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.

Certain items of personal information are considered directory information and may be published without students' permission. These include name, dates of attendance, degrees earned, local and home address, e-mail 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.

Master of Athletic Training

The Master of Athletic Training (MAT) degree is designed to prepare students to become certified athletic trainers (ATC). Athletic trainers are health care professionals who collaborate with physicians to optimize activity and participation of patients and clients. Athletic training encompasses the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions involving impairment, functional limitations, and disabilities.

The MAT program is designed for students with minimal knowledge and experience in athletic training. Individuals who are graduates of CAATE-approved programs are not eligible for admission. Upon successful completion of all clinical and didactic components of the MAT program, students are eligible to take the Board of Certification (BOC) examination in athletic training. Passing the BOC examination leads to awarding of the credential ATC.

The mission of the MAT is to prepare individuals who are educationally well-rounded, critical thinkers, good citizens, and active professionals, as well as competent allied health professionals. The program's goal is to prepare qualified athletic trainers for the profession of athletic training and is guided by these objectives:

- To produce quality athletic training professionals for potential employment in appropriate health care settings;
- To prepare students to pass the BOC examination in athletic training through a CAATE-accredited education program;
- To promote professional and ethical conduct at all times;
- To provide an exemplary classroom and clinical learning environment in which students can develop appropriate evidence-based clinical knowledge and skills for an entry-level athletic training professional.

Admission Requirements

Students applying for admission to the Master of Athletic Training program must meet the following minimum requirements.

Baccalaureate degree from a regionally accredited institution

A 3.0 cumulative undergraduate grade point average

Completion of the published Technical Standards for the program

Completion of Manchester University Health Form and vaccination record

Completion of each of the following undergraduate courses with a minimum grade of C (2.00/4.00):

Human Anatomy with lab (Lecture and lab = at least 4.0 semester hours)

Human Physiology with lab (Lecture and lab = at least 4.0 semester hours)

Exercise Physiology with lab (Lecture and lab = at least 4.0 semester hours)

One course in chemistry (any level)
One course in physics (any level)
Biomechanics/Kinesiology
Nutrition
Principles of Fitness and Exercise Prescription
General Psychology
Introductory Statistics

Application

Manchester University employs a "rolling" application and admissions process for the MAT program. Applicants for the 2021 cohort may submit their application materials through ATCAS™ any time after July 1, 2020. When an application is received the applicant's record is immediately reviewed by the admissions committee. If most entrance requirements are met, an in-person or video interview will be scheduled. The admissions committee will then convene, and the admission decision will be communicated to the applicant soon after the completion of the interview. Any offer of admission is contingent upon completion of an undergraduate degree and completion of the MAT program prerequisites (see Conditional Admission below).

In addition to the admission requirements listed above, students who earned their degree(s) outside the United States must submit all relevant documentation to World Education Services, Inc. (WES) for evaluation and interpretation. Students should request that WES perform a course-by-course evaluation, and they should have a report sent directly to Manchester University at the following address: Dean for Natural and Health Sciences, Manchester University, 604 E. College Avenue, North Manchester, IN 46962. Information about WES can be found at www.wes.org. Students are responsible for payment of fees to WES (not Manchester University) for this service

Admission Status

Regular Admission:

Applicants who meet all of the admission requirements will be awarded regular admission status.

Conditional Admission:

Conditional admission may be awarded under the following circumstances:

• Student does not meet regular admission standards but shows evidence of capability to achieve success in the graduate program;

• Student's academic background indicates that additional undergraduate course work is warranted before or concurrent with enrollment in graduate classes.

Some students may be admitted to the MAT program prior to the completion of all prerequisite courses.

A MAT graduate student may enroll in a maximum of 8 undergraduate semester hours each fall and spring semester of the first year of graduate study in order complete prerequisite courses. No additional tuition is charged for these courses. In the event an admitted student does not complete the prerequisite course/s with at least a C within the first year after admittance, the student will be required to meet with the Program Director and may be required to repeat the prerequisite course/s at his or her own expense.

Special Admission

A student who does not intend to work toward a graduate degree at Manchester University but who wishes to take (a) course(s) for graduate credit may apply for admission as a special student. A maximum of six semester hours may be earned as a special student. To be admitted the applicant must hold a baccalaureate degree from a regionally accredited institution by September 1 of the year of admission as a special student and have permission of the program director.

Readmission

Students who wish to be readmitted to a graduate program after a period of inactivity - defined as one semester or more - must meet with the program director. Readmission decisions rest with the respective program director, pending approval from Student Financial Services.

Degree Requirements

- To earn the MAT degree, students must complete the following:
- Maintain a cumulative grade point average of at least 3.00;
- Earn at least a 2.00 (C) in each required course;
- Complete all required didactic and clinical courses;
- Complete all required didactic and clinical courses

MS in MAT Course Requirements

Required		
Course Number	Course Name	Credit Hours
ATTR 503	Orientation to Athletic Training Practice	3
ATTR 510	Acute Trauma Management	4

ATTR 532	Clinical Skills Lab I	3
ATTR 520	Injury Classification & Management	4
ATTR 525	Pharmacy Principles of Athletic Trainers	3
ATTR 517	Clinical Practice I	3
ATTR 528	Patient Assessment & Therapeutic Intervention I	4
ATTR 542	Clinical Skills Lab II	3
ATTR 538	Patient Assessment & Therapeutic Intervention II	4
ATTR 533	Administration of Athletic Training Practice	4
ATTR 513	Orientation to Medical Specialties	1
ATTR 527	Clinical Practice II	3
ATTR 548	Patient Assessment & Therapeutics Intervention III	4
ATTR 552	Clinical Skills Lab III	3
ATTR 558	Patient Assessment & Therapeutic Intervention IV	4
ATTR 555	Preparation for Professional Practice	3
ATTR 537	Clinical Practice III	3
ATTR 581	Integration of Patient Care I	4
ATTR 562	Clinical Skills Lab IV	3
ATTR 582	Integration of Patient Care II	4

Retention Policy

The MAT program has a retention policy in place in the case that a student falls below a specific academic standard. The retention policy of Manchester's Graduate Athletic Training Program is as follows:

A minimum grade point average of 3.00 is required for good standing in the graduate program. Students whose academic performance falls below this level <u>after the student's first Fall Semester</u> will be dismissed from the program. The Program Director will conduct a review of academic process at the end of each semester or session (fall, January, spring, summer).

Repeating Courses

Courses counted toward a MAT degree completion may be repeated a maximum of one time.

Petitions for Special Action

Students who believe extenuating circumstances merit consideration may petition the Graduate/Professional Curriculum and Assessment Committee for exceptions to stipulated policies and regulations. Petitions must be in writing and are to be filed with the appropriate program director. Action on petitions will be taken only at regular meetings of the committee and will not be considered as a precedent for any future action. The decision of the committee is final, and no further appeal procedure shall exist within the University.

Clinical Experience Hours Policy

Students engaged in clinical rotations must have one day off from clinical education responsibilities in every seven-day period.

Each student is responsible for the accurate and timely reporting of clinical hours on Core™. Clinical hours should NOT be recorded for travel time to and from clinical sites and other clinical education experiences.

Students are responsible for reporting their hours to the nearest quarter of an hour, noting the day of the week and the clinical assignment. The students should update their clinical hours record at least once a week in order to ensure accuracy.

There is no mandatory total number of clinical hours required for completion of the athletic training program.

Athletic Training Student hours are verified and reviewed weekly by the assigned preceptor and Clinical Education Coordinator. Failure to comply with the appropriate recording of clinical hours will result in deduction of points from the corresponding Clinical Experience course. Fabrication of clinical hours will result in disciplinary action consistent with the program's academic dishonesty policy.

Documentation of clinical time will be recorded by the student on $Core^{TM}$, verified by the preceptor, and maintained by the CEC. It is the student's responsibility to record hours on $Core^{TM}$.

ATTR 503 Orientation to Athletic Training Practice – 3 hours Introductory course for MAT students. Topics include domains and standards of athletic training practice, history of the profession, and the foundations for delivering patient-centered care. Students will have the ability to observe athletic trainers working in various settings in

athletic training: occupational health, secondary, collegiate, and orthopedic clinic. Skills learned in this course are practiced and refined in a field experience component. Students are directly supervised by a preceptor.

ATTR 510 Acute Trauma Management – 4 hours

Introductory course for MAT students. Topics include domains and standards of practice, history of the profession, concepts of injury and illness prevention, injury mechanisms and classifications, and immediate management of illnesses and injuries. Skills learned in this course are practiced and refined in a field experience component

ATTR 513 Orientation to Medical Specialties – 1 hour

Students will acquire skills and knowledge on the recognition, treatment, and referral of general medical conditions. Including but not limited to congenital and acquired abnormalities. Included are physiological progression of injuries, illnesses, and diseases. Additional area of focus related to diagnostics, interventions, pharmacological and implications for patients.

ATTR 517 Clinical Practice I – 3 hours

In this level of clinical experience in athletic training, students have the opportunity to practice and apply designated clinical techniques. Students are under supervision of a preceptor who will evaluate the students' clinical proficiencies in an athletic training setting.

ATTR 520 Injury Classification & Management – 4 hours

Topics include injury and illness prevention, injury mechanisms and classifications, and immediate management of illnesses and injuries. Students will gain practical application of taping, wrapping, bracing techniques and protective equipment.

ATTR 525 Pharmacy Principles for Athletic Trainers – 3 hours

This course is designed to provide students with a basic understanding of pharmacology emphasizing drug law, routes of administration, basic pharmacokinetics, and the specific pharmacology and therapeutics of drugs commonly used in physical medicine. A class presentation and research paper are required of graduate students enrolled in this course. Students will also complete medical rotations within clinical sites and identify daily routines of pharmacists and the daily interaction / communication with athletic training.

ATTR 527 Clinical Practice II – 3 hours

Clinical practice II is the second in a sequence of three required clinical practice courses. In this level of clinical experience in athletic training, students have the opportunity to practice and apply designated clinical techniques. Students are under supervision of an approved preceptor who will evaluate the students' clinical proficiencies in an athletic training setting.

ATTR 528 Patient Assessment & Therapeutic Intervention I – 4 hours
This course focuses on the advanced physical assessment and treatment of injury and

pathology of the upper extremity: shoulder, cervical spine, thorax, forearm, wrist, hand, and abdomen. Students will learn the theory and techniques of joint mobilization, proprioceptive neuromuscular facilitation, and other selected rehabilitation strategies and modalities used by athletic trainers to restore a patient's muscular flexibility, strength, endurance and functional ability following injury.

ATTR 532 Clinical Skills Lab I – 3 hours

Application and practice of skills related to topics addressed in Injury Classification and Management and Acute Trauma Management. Students will engage in standardized patient and simulations to practice their use of emergency management equipment, taping, wrapping, bracing techniques and protective equipment.

ATTR 533 Administration of Athletic Training Practice – 4 hours

This course will focus on health care administration topics for the athletic trainer. Topics include liability and risk management issues, athletic training facility design and operation, budgeting, and personnel management

ATTR 537 Clinical Practice III – 3 hours

Clinical practice III is the third in a sequence of three required clinical practice courses. In this level of clinical experience in athletic training, students have the opportunity to practice and apply designated clinical techniques. Students are under supervision of an approved preceptor who will evaluate the students' clinical proficiencies in an athletic training setting.

ATTR 538 Patient Assessment & Therapeutic Intervention II – 4 hours

Designed to expand on the course content in ATTR 528- Patient Assessment & Therapeutic Intervention I, this course uses a structured and organized assessment process that draws on knowledge of anatomy and physiology to learn to develop a list of differential diagnoses through clinical reasoning regarding the hip, thigh, knee, ankle and foot. Students will learn to formulate treatment plans using evidence-based practice and practical framework so that they can develop, implement, and modify an appropriate and effective therapeutic intervention for their patient.

ATTR 542 Clinical Skills Lab II - 3 hours

Application and practice of skills related to topics addressed in Patient Assessment and Therapeutic Intervention I and II. Includes development of ability to use appropriate psychosocial techniques in patient care, documentation procedures, and various measurement techniques used by athletic trainers.

ATTR 548 Patient Assessment & Therapeutic Intervention III – 4 hours

This course focuses on the advanced physical treatment with therapeutic modalities and rehabilitation as it pertains to the treatment of injury and pathology of the upper and lower

extremity. Students will learn the theory and techniques of therapeutic ultrasound, diathermy, myofascial techniques, electrical muscle stimulation and other modalities commonly seen in athletic training. These will be selected while determining rehabilitation strategies and modalities used to restore a patient's muscular flexibility, strength, endurance and functional ability following injury.

ATTR 552 Clinical Skills Lab III - 3 hours

Application and practice of skills related to topics addressed in Patient Assessment and Therapeutic Intervention I, II and III. Includes development of ability to use appropriate psychosocial techniques in patient care, documentation procedures, and various measurement techniques used by athletic trainers.

ATTR 555 Preparation for Professional Practice – 3 hours

Provides an integration of prior coursework and expertise in athletic training, preparation for the BOC Certification Exam, and forum for discussion of athletic training issues of current concern.

ATTR 558 Patient Assessment & Therapeutic Intervention IV – 4 hours

This course guides therapists to develop evidenced-based practices when integrating therapeutic modalities and rehabilitation exercises to the treatment of injury and pathology of the upper and lower extremity.

ATTR 562 Clinical Skills Lab IV – 3 hours

Application and practice of skills related to topics addressed specifically in Patient Integration I and II and generally those introduced in previous courses. This course is the last in a four-course laboratory sequence. Includes continued application and practice of techniques used by athletic trainers in all practice domains of athletic training.

ATTR 581 Integration of Patient Care I – 4 hours

Students will learn how the increasing diversity of the United States brings opportunities and challenges for health care providers, health care systems, and policy makers to create and deliver culturally competent services. Topics covered in this class include health literacy, cultural literacy, and geriatrics.

ATTR 582 Integration of Patient Care II – 4 hours

Designed to expand on the course content in ATTR 581- Integration of Patient Care I, this course blends behavioral health services with general and/or specialty medical services. This course also expands on interprofessional practice by exposing students to various healthcare professionals in order to effectively coordinate the care of patients.

Master of Science in Pharmacogenomics

The Master of Science in Pharmacogenomics (MS in PGx) degree is designed to prepare students to enter the specialized field of application of genetic information, where an individual's DNA is used to optimize drug therapy.

The mission of the Pharmacogenomics Programs is to prepare graduates with the skills to excel as innovators, applied scientists, and practitioners in the pharmacogenomics.

The following are the learning outcomes of the MS in PGx program:

- Demonstrate mastery of the scientific principles that relate to pharmacogenomics.
- Effectively communicate ideas in written and oral formats.
- Use literature and genetic testing results to improve decision-making.
- Demonstrate technical and/or clinical proficiency with relevant PGx methodologies.

The following are the learning outcomes of the academic certificate program:

- Demonstrate proficiency of the scientific principles that relate to pharmacogenomics.
- Interpret pharmacogenomics test results and effectively communicate information in written and oral formats.

Master of Science in Pharmacogenomics Program Options

Academic Certificate, Online

12 credit hours

The online graduate certificate (GC in PGx) is designed primarily for those with an undergraduate science or professional degree. The GC in PGx provides an introduction to pharmacogenomics and includes the study of human genetics, bioinformatics, ethics and pharmacokinetics. The curriculum offers electives related to pharmacogenomics implementation in clinical settings or laboratory trainings. Students taking electives in pharmacogenomics implementation will create a business plan for implementation of pharmacogenomics testing at a clinical site and will discuss/create in-depth patient cases that will prepare them for using pharmacogenomics to guide patient care. Students that take the laboratory training will learn to perform DNA analysis with the most up-to-date technology in preparation for work in the pharmaceutical, genetic testing, and professional service industries. The pharmacogenomics implementation electives are completed online.

Online Option course requirements

Students that successfully complete the Graduate Certificate in Pharmacogenomics are eligible to apply for the Masters in Pharmacogenomics program. Any credits earned during the academic certificate will apply towards to total credits needed for the master's degree.

1 Year, On-Campus

34 credit hours

The on-campus program at the Fort Wayne, IN campus is designed primarily for those with an undergraduate science degree, offering a one-year, intensive path to a master's degree divided into three four-month semesters. It provides unparalleled depth and breadth in pharmacogenomics and includes the study of human genetics, bioinformatics, ethics and pharmacokinetics. The curriculum offers electives in laboratory training or pharmacogenomics implementation in clinical settings. Students that take the laboratory training will learn to perform DNA analysis with the most up-to-date technology in preparation for work in the pharmaceutical, genetic testing, and professional service industries. Students taking electives in pharmacogenomics implementation will create a business plan for implementation of pharmacogenomics testing at a clinical site and will discuss/create in-depth patient cases that will prepare them for using pharmacogenomics to guide patient care. The pharmacogenomics implementation electives are completed online.

Online Option course requirements

2 Year, Online

34 credit hours

The online program is designed primarily for those with an undergraduate science or professional degree, offering a two-year, part-time path to a master's degree divided into intensive 7-week courses. It provides unparalleled depth and breadth in pharmacogenomics and includes the study of human genetics, bioinformatics, ethics and pharmacokinetics. The curriculum offers electives in laboratory training or pharmacogenomics implementation in clinical settings. Students that take the laboratory training will learn to perform DNA analysis with the most up-to-date technology in preparation for work in the pharmaceutical, genetic testing, and professional service industries. The laboratory course sequence is only offered on campus and at specific times, therefore students that choose to take the laboratory courses will complete that coursework at the Manchester University Fort Wayne, IN campus. Students taking electives in pharmacogenomics implementation will create a business plan for implementation of pharmacogenomics testing at a clinical site and will discuss/create in-depth patient cases that will prepare them for using pharmacogenomics to guide patient care. The pharmacogenomics implementation electives are completed online.

Online Option course requirements

Dual Degree, On campus and Online

34 credit hours

The dual degree program is for students in the Manchester University Pharmacy Program. It combines both on campus and online courses. It provides unparalleled depth and breadth in pharmacogenomics and includes the study of human genetics, bioinformatics, ethics and pharmacokinetics. The curriculum offers electives in laboratory training or pharmacogenomics implementation in clinical settings. Students that take the laboratory training will learn to perform DNA analysis with the most up-to-date technology in preparation for work in the pharmaceutical, genetic testing, and professional service industries. The laboratory course sequence is only offered on campus and at specific times, therefore students that choose to take the laboratory courses will complete that coursework at the Manchester University Fort Wayne, IN campus. Students taking electives in pharmacogenomics implementation will create a business plan for implementation of pharmacogenomics testing at a clinical site and will discuss/create in-depth patient cases that will prepare them for using pharmacogenomics to guide patient care. The pharmacogenomics implementation electives are completed online.

Dual degree program requirements

Admission Requirements

Academic Certificate in Pharmacogenomics

To be considered for admission to the academic certificate program, candidates must:

 Possess a minimum of a bachelor's degree in science or a science related field (chemistry, biology, etc.); or a professional degree (medicine, dentistry, pharmacy, etc.); or a master's degree in science or science related field (genetic counseling, etc.)

Master of Science in Pharmacogenomics, on campus and online

Beginning with the Spring of 2019 cohort (students with a January 2019 start date and beyond), to be considered for admission to the program, candidates must:

- Possess a minimum of a bachelor's degree in science or a science related field (chemistry, biology, etc.); or a professional degree (medicine, dentistry, pharmacy, etc.); or a master's degree in science or science related field (genetic counseling, etc.)
- A minimum cumulative GPA of 2.7 is required on a 4.0 scale
- A minimum science GPA of 2.7 is required on a 4.0 scale

Prior to the Spring 2019 cohort (students with a May 2016, May 2017, January 2018, May 2018, or August 2018 start date), to be considered for admission to the program, candidates must:

- Possess a minimum of a bachelor's degree in science or a science related field (chemistry, biology, etc.); or a professional degree (medicine, dentistry, pharmacy, etc.); or a master's degree in science or science related field (genetic counseling, etc.)
- A minimum cumulative GPA of 2.5 is required (3.0 is preferred) on a 4.0 scale
- A minimum science GPA of a 2.7 is preferred on a 4.0 scale

Dual Degree Master of Science in Pharmacogenomics and Pharm.D.

- Enrolled in the Manchester University Pharmacy Program
- A minimum cumulative GPA of 2.7 is required on a 4.0 scale
- A minimum science GPA of 2.7 is required on a 4.0 scale

Academic Certificate in PGx Application

The application for the academic certificate program in PGx can be found at this website (link).

MS in PGx Application

Application materials for the MS in PGx program are available on the PharmGrad website. Apply here.

Applicants who have completed a baccalaureate, graduate or professional degree must provide:

• an official transcript showing degree completion within 30 days of the start of the MS in PGx program. If the transcripts are not provided within the specified time, the student will be removed from the program.

Dual Degree (MS in PGx/Pharm.D.)

Students apply for admittance to the dual degree program in the spring of their first year in the pharmacy program. The application process is internal and is shared with all first-year pharmacy students in the fall of their first year.

Students that are in the pharmacy program that do not have a bachelor's degree, are eligible to apply and enroll I in the dual degree, but these students will not be awarded the MS in PGx degree until the pharmacy degree is conferred.

Admission Deferment

A student may defer their offer of enrollment one time. The maximum time for deferment is one academic calendar year. If the student requires multiple deferments, or a deferment longer than an academic year, they must reapply to the program and be reassessed for admission to the program.

Degree Requirements

Graduate Certificate in Pharmacogenomics

To earn the academic certificate in PGx, students must:

- Have a cumulative GPA of at least 3.00.
- Complete a total of 12 credit hours of course work (8 required and at least 4 credit hours elective) with a grade of "C" or better.

Graduate Certificate in PGx Course Requirements

Course Number	Course Name	Credit Hours
Required		
PGX 501	Intro to Pharmacogenomics	2
PGX 508	Pharmacogenomics in Practice I	3
PGX 526	Applied Pharmacogenomics I	3
Electives		
PGX 462	Research and Innovation Practice Seminar	1
PGX 482	Independent Research	1-3
PGX 505	Pharmacology	4
PGX 511	Advanced Molecular Biology	3
PGX 512	Advanced Pharmacokinetics	2
PGX 521	Human Genetics	4
PGX 531	Bioinformatics	4
PGX 533	Biostatistics/Data Analysis	3

PGX 536	Applied Pharmacogenomics in Practice 2	3

Master of Science in Pharmacogenomics

To earn the Master of Science in Pharmacogenomics degree, students must:

- Have a cumulative grade point average of at least 3.00.
- Complete a total of 34 credit hours of course work (29 credit hours required and at least 5 credit hours elective) with a grade of "C" or better.
- In order for dual degree students to earn the Master of Science in Pharmacogenomics degree, students must:
- Have a cumulative grade point average of at least 3.00.
- Complete a total of 34 credit hours of course work (29 credit hours required and at least 5 credit hours elective) with a grade of "C" or better.
- For students without a bachelors or professional degree, the MS in PGx degree will not be awarded until the pharmacy degree is conferred.

MS in PGx Course Requirements

Course	Course Name	Credit Hours
Number		
Required		
PGx 501	Introduction to Pharmacogenomics	2
PGx 505	Pharmacology	4
PGx 521	Human Genetics	4
PGx 515	Research Responsibilities and Ethics	1
PGx 526	Applied Pharmacogenomics 1	3
PGx 531	Bioinformatics	4
PGx 512	Advanced Pharmacokinetics	2
PGx 536	Applied Pharmacogenomics 2	3
PGx 511	Advanced Molecular Biology	3
PGx 533	Data Analysis/Biostatistics	3

Electives	Choose 5 credit hours from the following:	
PGx 514	Analytical Technology 1	1
PGx 524	Analytical Technology 2	2
PGx 534	Analytical Technology 3	2
PGx 508	Pharmacogenomics in Practice 1	3
PGx 528	Pharmacogenomics in Practice 2	2
PGx 462	Research and Innovative Practice Seminar	1
PGx 482	Independent Research	1-3
PGx 592	Pharmacogenomics Lab (includes an extra fee)	1

Pharmacogenomics Course Descriptions

PGX 501 Introduction to Pharmacogenomics 2 credits

Prerequisite: none

A presentation of the evolution of pharmacogenetics/pharmacogenomics, the human genome and modern applications of DNA information related to drugs. There will also be focused attention to necessary calculations for research and an introduction to pharmacokinetics.

PGX 515 Research Responsibilities and Ethics 1 credit

Prerequisite: none

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.

PGX 505 Pharmacology 4 credits

Prerequisite: none

Discusses the cellular and molecular mechanisms of drug action, studied within the disciplines of neuropharmacology and cardiovascular pharmacology, endocrine pharmacology,

antimicrobials, and cancer pharmacology. Included are lectures on basic physiology that underlie the mechanisms of important pharmacological agents. Special topics include drug discovery, new uses for established drugs, and pharmacogenetic/pharmacogenomic effects.

PGX 521 Human Genetics 4 credits

Prerequisite: none

Discusses how genes influence human traits, diseases, and behaviors, including how non-genetic factors interact with genetic factors to produce observable phenotypes. Human inheritance patterns, genome organization, linkage, and medical applications of genetics in the diagnosis, treatment, and prevention of disease will be explored. There will also be an introduction to molecular biology.

PGX 526 Applied Pharmacogenomics I 3 credits

Prerequisite: PGX 501 (grade of "C" or better or permission)

Discusses single nucleotide polymorphisms and other genetic variations and their potential impact on clinical medicine and related clinical outcomes. The translation of genetic variations to drug selection, dosing regimens, adverse effects, and regimen optimization will be discussed.

PGX 531 Bioinformatics 4 credits

Prerequisite: none

Introduction and exploration of the computational and informational aspects of genomics and proteomics. Includes aspects of sequence similarity analysis, sequence similarity searches, pairwise analysis, phylogenic trees (and relevance to human genomics), allelic variation analysis, user interface in health care management, population genetics, genomics data results analysis, data quality, and predictions and confirmations of genomics-based altered drug responses.

PGX 512 Advanced Pharmacokinetics 2 credits

Prerequisite: PGX 501 (grade of "C" or better or permission)

Discusses the mathematical and conceptual study of the time course of drug absorption, distribution, metabolism, and excretion.

PGX 536 Applied Pharmacogenomics II 3 credits

Prerequisites: PGX 501 and PGX 526 (grade of "C" or better or permission)

A continuation of Applied Pharmacogenomics and will continue to focus on single nucleotide polymorphisms and other genetic variation and their potential impact on clinical medicine and related clinical outcomes. The translation of genetic variations to drug selection, dosing regimens, adverse effects, and regimen optimization will be discussed.

PGX 511 Advanced Molecular Biology 3 credits

Prerequisite: PGX 521 (grade of "C" or better or permission)

Concepts will be related to analytical methodology. Current approaches to DNA manipulation and mutation analysis, protein assays, quantitative analysis of gene expression, sequencing, immunostaining, microscopy, and image analysis will be discussed.

PGX 533 Data Analysis/Biostatistics 3 credits

Prerequisite: none

Discusses the use of statistical methods to process public health and genetic data. An emphasis on interpretation and concepts in areas such as population genetics, genome-wide association studies and systems biology will be undertaken.

PGX 514 Analytical Technology I 1 credit

Prerequisite: none

On-Campus Lab: Analytical technique approaches in molecular biology, such as DNA, manipulation and mutation analysis, protein assays, and quantitative analysis of gene expression, among other techniques.

PGX 524 Analytical Technology II 2 credits

Prerequisite: PGX 514 (grade of "C" or better or permission)

On-Campus Lab: Continuation of Analytical Technology I

PGX 534 Analytical Technology III 2 credits

Prerequisites: PGX 514 and PGX 524 (grade of "C" or better or permission)

On-Campus Lab: Continuation of Analytical Technology I and II

PGX 508 Pharmacogenomics in Practice I 3 credits

Prerequisites: PGX 501 (grade of "C" or better or permission)

The first of a two-course sequence focused in application of pharmacogenomics in a practice setting. The course will include practicums, write-ups and discussions of complicated patient cases. The course will also include the composition of a business plan or implementation plan for introducing pharmacogenomics into the practice of a practicum site.

PGX 528 Pharmacogenomics in Practice II 2 credits

Prerequisites: PGX 501 and PGX 508, Pharmacogenomics in Practice I (grade of "C" or better or permission)

Continuation of Pharmacogenomics in Practice I

PGX 462 Research and Innovative Practice Seminar 1 credit

Prerequisite: none

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. Online students will participate by watching recorded seminars on their own time.

PGX 482 Independent Research 1-3 credit

Prerequisite: none

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

PGX 592 Pharmacogenomics Lab 1 credit

Prerequisite: none

Special note: This course includes an additional laboratory fee.

This on campus laboratory course introduces modern analytical techniques commonly used for DNA, RNA, and protein collection, isolation, preparation, and analysis. Students will have the opportunity to actively engage in laboratory processes associated with pharmacogenomics. The course is one-week in length and students will work for 40 hours that during the week.

Master of Accountancy

The Master of Accountancy (MACCT) is an integrated 3/1 program, designed for exceptional students interested in earning a bachelor's degree and a master's degree in four years. The MACCT is housed in the University's College of Business:

Mission and Values

Building on the Mission and Vision of Manchester University, the Arthur L. Gilbert College of Business creates a learning environment in which students may acquire and develop the knowledge, experience, skills, and global perspective needed to succeed in their chosen fields of business and in graduate school. The College's learning environment is built on the following values:

- Integrity—developing a strong ethical foundation for making difficult decisions in a complex business environment
- Respect—fostering a culture of collaboration, inclusion, and stewardship
- Excellence—striving to create an atmosphere in which the performance of students surpasses even their own expectations

Among other things, the program prepares students to sit for the Uniform CPA examination and to enter the public accounting profession. In the third and fourth years of the program, students will enroll in both undergraduate and graduate courses, and both the bachelor's and master's degrees will be awarded at the end of the fourth year. Students who have already earned a bachelor's degree and wish to earn the MACCT will work with the program director to develop an individualized plan for completing the degree.

Admission Requirements

Manchester undergraduate students applying to the program must have earned a 3.3 cumulative GPA and must have completed the following courses with a minimum grade of B (3.00/4.00):

- BUS 310 Business Information Systems
- BUS 313 Business Law I
- FIN 333 Principles of Finance
- ACCT 311 Intermediate Accounting I
- ACCT 312 Intermediate Accounting II
- ACCT 321 Managerial and Cost Accounting
- ACCT 331 Introduction to Taxation
- DATA 210 Statistical Analysis

Students who have already completed a bachelor's degree at another regionally accredited college or university must have earned a 3.3 cumulative GPA and must have completed the equivalent of the Manchester courses listed above with a minimum grade of B (3.00/4.00). These courses must be approved by the program director and the registrar, and Manchester may require the submission of course descriptions and/or course syllabi if there are questions about the equivalency of the completed courses.

Regular Admission

Applicants who meet all of the admission requirements will be awarded regular admission status.

Conditional Admission

A student who does not meet all of the admission requirements but shows evidence of being capable of succeeding in the program may be admitted conditionally, in which case the program director will provide the student with a written statement of the conditions which must be satisfied.

Degree Requirements

To earn the MAACT, students must complete the following undergraduate bridge and master's-level courses.

Course	Course Name	Credit Hours
Number		

ACCT 435	Government and Nonprofit Accounting	3
ACCT 422	Advanced Managerial Accounting	3
ACCT 485	Seminar	3
BUS 414	Business Law II	3
ACCT 515	Accounting Research	3
ACCT 523	Data Analytics	3
ACCT 531	Accounting Research	4
ACCT 551	Advanced Accounting	3
ACCT 509	Advanced Auditing	3
BUS 525	Advanced Business Information Systems	3
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Students must maintain a cumulative grade point average of at least 3.0 and must earn at least a 2.0 (C) in each required bridge and master's-level course.

Master of Accountancy Course Descriptions

Bridge Courses

ACCT 435 Government & Nonprofit Accounting—3 semester hours

Students learn the basic principles and procedures of financial accounting for state and local governments and nonprofit organizations. Prerequisite: ACCT 311.

ACCT 422 Advanced Managerial Accounting—3 semester hours

Students examine advanced accounting methods that assist an organization with planning and control. Emphasis is placed on the managerial accountant as business partner in an organization. Topics include quality costs, transfer pricing, performance measurement and current topics in managerial accounting. Prerequisite: ACCT 321.

ACCT 485 Seminar—3 semester hours

An in-depth consideration of a significant scholarly problem or issue. Students pursue a supervised, independent inquiry on an aspect of the topic and exchange results through reports and discussion.

Fraud Examination

Students examine cases of fraud, including fraudulent financial reporting and asset misappropriation schemes. Further, students will gain an understanding of the fraud triangle and develop skills in analyzing each of the components in an effort to better detect organizational fraud and identify recommendations for future prevention.

ACCT 453 Accounting Ethics—3 semester hours

Students examine various ethical theories and their application to ethical dilemmas within the accounting profession. In addition, students will develop strategies to address and resolve ethical dilemmas. Topics include actual ethical dilemmas and codes of ethics from accounting bodies such as the AICPA.

BUS 414 Business Law II—3 semester hours

Students continue the examination of the legal environment in which businesses operate. Topics include business organizations, agency, debtor/creditor relations, secured transactions, and securities law. Prerequisite: BUS 313.

Master's Courses

ACCT 509 Advanced Auditing—3 semester hours

Students advance their understanding of audit theory and practice through hands on application of auditing procedures such as planning and accepting engagements, evaluating internal controls, obtaining evidence to form conclusions, and preparing communications to satisfy engagement objectives. Prerequisite: ACCT 409

ACCT 515 Accounting Research—3 semester hours

Students conduct research and develop advanced critical thinking skills through analysis and reporting of research findings. Students will research issues in technical accounting, tax and audit topics.

ACCT 523 Data Analytics—3 semester hours

Students will develop skills in gathering large amounts of financial and nonfinancial data, converting that data into useful information, and formulating conclusions for decision making. Students will practice various data analysis techniques and analyze information in financial accounting, auditing, and other accounting areas.

ACCT 531 Advanced Taxation—4 semester hours

Students explore advanced taxation topics, principally in the area of corporate taxation. Topics include property transactions, like-kind exchanges, and taxation of corporations, S corporations, and partnerships.

ACCT 551 Advanced Accounting—3 semester hours

Students explore complex issues in financial accounting. Topics include accounting for partnerships, consolidations and business combinations, foreign currency transactions and translations, segment and interim reporting.

BUS 525 Advanced Business Information Systems—3 semester hours

Students explore the intersection of accounting information systems, business processes and decision making. Hands on application of all phases of the systems development life cycle will be a focus of this course. Topics include internal controls, risk management and using emerging technologies to add value to business organizations.