2021 STUDENT ACHIEVEMENT METRIC:
150% GRADUATION RATE
2019 INSTITUTIONAL 150% 5-YEAR AVERAGE: 86%
2020 INSTITUTIONAL 150% TARGET: 87% (goal)
2020 INSTITUTIONAL 150% THRESHOLD OF ACCEPTABILITY: 83%

2020 AVERAGE: 89%
CRITERIA MET IN 2021: YES,
threshold was exceeded

The 2020 150% graduation rate was **89%** demonstrating our success criteria was met because it is higher than the threshold of accountability. Furthermore, the 89% rate is higher than the institutional target. Graduation rates are measured as the percentage of enrolled students in a cohort class that graduated within a specified timeframe. The calculation of expected time to graduation counts the number of semesters a student is enrolled from the student's first semester through graduation. Each program determines the number of elapsed semesters for which a student should complete a program on-time. The 2021 cohort contains graduates expected to complete a program in May 2021; the 2020 150% graduation rate is considered for student achievement purposes because the 150% timeline has not yet passed for the 2021 cohort. Typical graduation rates measure completion rate of first-time, full-time freshmen; however, as UMMC does not have programs with freshmen or sophomore students, the graduation rate and cohort is defined differently.

Official institution, school, and program enrollment and graduation numbers are gathered from student information in SAP and presented in QlikView, a real-time, interactive data dashboard accessible through the intranet. Within the institution's internal data dashboard, graduation rates are calculated for 100%, 150%, and 200% of each program/track's normal time to completion within a full-time plan of study. (Part-time students are tracked in the calculation based on full-time time to completion.) Published information on graduation rate is presented for undergraduate programs and mostly non-research-based or professional graduate programs. Research-based graduate programs report "Average Time to Degree" instead of "Graduation Rate."

The 2020 *target (goal)* for overall 150% graduation rate at UMMC is **87%** which is set as an improvement aim, one point above the prior year's 5-year rolling average of **86%**. The *threshold of acceptability* (minimum limit) for the graduation rate within 150% of the expected time to graduation is **83%**. Schools and programs meet the expected "criteria for success" if the *threshold of acceptability* is <u>exceeded</u>. The institutional threshold of acceptability is set by the Academic Integrity Council. School thresholds are set by deans, and program thresholds are set on a program basis accounting for level of the program and benchmark data from the institution.

UMMC's 2021 100% graduation rate across all programs is **80%** which is higher than the prior five years' rolling average of **75%**. We infer from this data that we should remain on track to meet the 150% threshold for the 2021 cohort next year.

In 2018, at institutions across the United States, the average six-year graduation rate (150%) for first-time, full-time students was **62%.*** The expected outcomes for UMMC are much higher reflecting the nature of student population UMMC serves, strong admission criteria, and rigorous programs of study.

2021 STUDENT ACHIEVEMENT METRIC:
GRADUATION RATE
BY DEGREE PROGRAM

DEGREE PROGRAM	2017	2018	2019	2020	2021*	AVERAGE**
SCHOOL OF DENTISTRY	92%	86%	97%	94%	87%	91%
Bachelor of Science in Dental Hygiene	84%	78%	96%	96%	87%	88%
Doctor of Dental Medicine	97%	91%	97%	92%	88%	93%
SCHOOL OF GRADUATE STUDIES IN HEALTH SCIENCES						
Graduate-level programs that report completion as "Time to Degree"						
SCHOOL OF HEALTH RELATED PROFESSIONS	85%	84%	89%	90%	91%	87%
Bachelor of Science in Health Informatics & Information Management (DE)	47%	63%	50%	86%	33%	58%
Bachelor of Science in Health Sciences (DE)	63%	55%	64%	82%	79%	67%
Bachelor of Science in Histotechnology	---	---	100%	100%	75%	83%
Bachelor of Science in Medical Laboratory Science	93%	91%	89%	93%	93%	92%
Bachelor of Science in Medical Laboratory Science - Progression (DE)	71%	80%	100%	---	---	80%
Bachelor of Science in Radiologic Science	96%	91%	96%	100%	100%	97%
Bachelor of Science in Radiologic Science - Advanced Standing (DE)	100%	94%	100%	93%	100%	97%
Doctor of Health Administration (DE)	85%	87%	90%	89%	71%	84%
Doctor of Physical Therapy	98%	98%	96%	90%	98%	96%
Master of Occupational Therapy/Doctor of Occupational Therapy	90%	95%	100%	98%	97%	96%
Master of Science in Health Informatics & Information Management (DE)	75%	53%	50%	40%	57%	55%
Master of Health Sciences (DE)	81%	81%	80%	91%	80%	83%
Master of Science in Magnetic Resonance Imaging	100%	100%	100%	100%	100%	100%
Master of Science in Nuclear Medicine Technology	100%	100%	100%	100%	100%	100%
SCHOOL OF MEDICINE	93%	95%	95%	94%	84%	92%
Doctor of Medicine	93%	95%	95%	94%	84%	92%
SCHOOL OF NURSING	87%	86%	84%	88%	80%	85%
Bachelor of Science in Nursing	94%	91%	90%	95%	90%	92%
Master of Science in Nursing	76%	75%	76%	74%	40%	71%
Doctor of Nursing Practice	27%	60%	33%	14%	13%	34%
SCHOOL OF POPULATION HEALTH						
Graduate-level programs that report completion as "Time to Degree"						

(DE) represents the program's mode of delivery is via distance education.

*Data in the 2021 column reflects the 100% graduation rate for each program.

** Average includes the 150% rate for 2017-2020 and the 100% rate for 2021 for each program.

2021 STUDENT ACHIEVEMENT METRIC:
GRADUATION RATE (150%)
for Undergraduate Programs Only
BY PROGRAM

DEGREE PROGRAM	2017	2018	2019	2020	2021*	AVERAGE**
INSTUTITIONAL TOTAL	**89%**	**87%**	**89%**	**94%**	**90%**	**90%**
SCHOOL OF DENTISTRY	**84%**	**78%**	**96%**	**96%**	**87%**	**88%**
Bachelor of Science in Dental Hygiene	84%	78%	96%	96%	87%	88%
SCHOOL OF GRADUATE STUDIES IN HEALTH SCIENCES	no undergraduate programs					
SCHOOL OF HEALTH RELATED PROFESSIONS	**78%**	**77%**	**83%**	**92%**	**89%**	**83%**
Bachelor of Science in Health Informatics & Information Management (DE)	47%	63%	50%	86%	33%	58%
Bachelor of Science in Health Sciences (DE)	63%	55%	64%	82%	79%	67%
Bachelor of Science in Histotechnology	-	-	100%	100%	75%	83%
Bachelor of Science in Medical Laboratory Science	93%	91%	89%	93%	93%	92%
Bachelor of Science in Medical Laboratory Science - Progression (DE)	71%	80%	100%	-	-	80%
Bachelor of Science in Radiologic Science	96%	91%	96%	100%	100%	97%
Bachelor of Science in Radiologic Science - Advanced Standing (DE)	100%	94%	100%	93%	100%	97%
SCHOOL OF MEDICINE	no undergraduate programs					
SCHOOL OF NURSING	**94%**	**91%**	**90%**	**95%**	**90%**	**92%**
Bachelor of Science in Nursing	94%	91%	90%	95%	90%	92%
SCHOOL OF POPULATION HEALTH	no undergraduate programs					

* Data in the 2021 column reflects the 100% graduation rate for each program.

** Average includes the 150% rate for 2017-2020 and the 100% rate for 2021 for each program.

2021 STUDENT ACHIEVEMENT METRIC:
1-YEAR RETENTION RATE
2022 INSTITUTIONAL 5-YEAR AVERAGE: 94%
2022 INSTITUTIONAL TARGET: 95% (goal)
2022 INSTITUTIONAL THRESHOLD OF ACCEPTABILITY: 90%

2022 AVERAGE: 95%
CRITERIA MET IN 2021: YES,
score was above target and threshold of acceptability

In 2022, the institutional retention rate was **95%** which exceeds both the threshold of accountability and the institutional target. Retention rates are measured as the percentage of enrolled students in an expected cohort class that were still enrolled at the institution (retained) within a specified timeframe. The primary calculation methods are first-year through sixth-year retention following the initial enrollment within a degree program. The calculation begins with the student's first enrolled semester and retention is checked every fall on a yearly basis from that point. Students that graduate are considered infinitely retained.

Official institution, school, and program enrollment and retention numbers are gathered from student information in SAP and presented in QlikView, a real-time, interactive data dashboard accessible through the intranet.

The *target (goal)* for 1-year retention is **94%** which is set as prior 5-year rolling average. The *threshold of acceptability* (minimum limit) for the 1-year retention is **90%**. The expected outcomes for UMMC are much higher reflecting the nature of student population UMMC serves, strong admission criteria, and rigorous programs of study.

2022 STUDENT ACHIEVEMENT METRIC:
1-YEAR RETENTION RATE
BY PROGRAM

DEGREE PROGRAM	2018	2019	2020	2021	2022	AVERAGE
SCHOOL OF DENTISTRY	**91%**	**98%**	**95%**	**95%**	**100%**	**96%**
Bachelor of Science in Dental Hygiene	78%	96%	96%	87%	100%	91%
Doctor of Dental Medicine	100%	100%	95%	100%	100%	99%
SCHOOL OF GRADUATE STUDIES	**92%**	**88%**	**95%**	**95%**	**95%**	**93%**
MS in Biomedical Materials Science	-	-	100%	-	-	100%
MS in Biomedical Sciences - MFM	100%	100%	100%	100%	100%	100%
MS in Biomedical Sciences	92%	90%	97%	95%	100%	95%
MS in Clinical Investigation	100%	67%	83%	100%	100%	90%
PhD in Biomedical Materials Science	-	100%	-	67%	-	75%
PhD in Biomedical Sciences	-	-	-	100%	-	100%
PhD in Cell and Molecular Biology	100%	100%	100%	100%	100%	100%
PhD in Clinical Anatomy	100%	100%	100%	50%	83%	87%
PhD in Experimental Therapeutics and Pharmacology	67%	33%	100%	100%	91%	78%
PhD in Microbiology and Immunology	100%	100%	67%	100%	92%	92%
PhD in Neuroscience	100%	80%	67%	100%	100%	89%
PhD in Nursing	100%	86%	100%	100%	77%	93%
PhD in Pathology	0%	100%	100%	100%	-	75%
PhD in Physiology and Biophysics	-	100%	75%	100%	83%	90%

SCHOOL OF HEALTH RELATED PROFESSIONS	88%	91%	92%	95%	93%	92%
Bachelor of Science in Health Informatics & Information Management (DE)	74%	67%	86%	100%	100%	85%
Bachelor of Science in Health Sciences (DE)	61%	73%	82%	83%	83%	76%
Bachelor of Science in Histotechnology	-	100%	100%	75%	100%	94%
Bachelor of Science in Medical Laboratory Science	91%	100%	93%	93%	88%	93%
Bachelor of Science in Medical Laboratory Science - Progression (DE)	80%	100%	-	-	-	90%
Bachelor of Science in Radiologic Science	91%	96%	100%	100%	100%	97%
Bachelor of Science in Radiologic Science - Advanced Standing (DE)	94%	100%	93%	100%	100%	97%
Doctor of Health Administration (DE)	100%	90%	100%	93%	100%	97%
Doctor of Physical Therapy	98%	96%	92%	98%	92%	96%
Master of Occupational Therapy/Doctor of Occupational Therapy	98%	100%	100%	97%	99%	95%
Master of Science in Health Informatics & Information Management (DE)	63%	50%	40%	86%	86%	65%
Master of Health Sciences (DE)	88%	80%	91%	80%	80%	84%
Master of Science in Magnetic Resonance Imaging	100%	100%	100%	100%	100%	100%
Master of Science in Nuclear Medicine Technology	100%	100%	100%	100%	100%	100%
SCHOOL OF MEDICINE	100%	99%	99%	99%	97%	99%
Doctor of Medicine	100%	99%	99%	99%	97%	99%
SCHOOL OF NURSING	95%	94%	95%	95%	95%	95%
Bachelor of Science in Nursing	95%	95%	96%	96%	95%	95%
Master of Science in Nursing	94%	94%	92%	93%	93%	93%
Doctor of Nursing Practice	100%	67%	71%	88%	100%	85%
SCHOOL OF POPULATION HEALTH	--	--	90%	88%	88%	89%
Master of Science in Biostatistics and Data Science	--	--	0%	100%	100%	67%
Exec. Master of Science in Population Health Management	--	--	100%	100%	50%	83%
Master of Science in Population Health Science	--	--	--	78%	100%	89%

(DE) represents the program's mode of delivery is via distance education.

2022 STUDENT ACHIEVEMENT METRIC:
1-YEAR RETENTION RATE
BY SCHOOL

DEGREE PROGRAM	2018	2019	2020	2021	2022	AVERAGE
INSTUTITIONAL TOTAL	**94%**	**93%**	**94%**	**95%**	**95%**	**94%**
SCHOOL OF DENTISTRY	91%	98%	95%	95%	100%	96%
SCHOOL OF GRADUATE STUDIES IN HEALTH SCIENCES	92%	88%	95%	95%	95%	93%
SCHOOL OF HEALTH RELATED PROFESSIONS	88%	91%	92%	95%	93%	92%
SCHOOL OF MEDICINE	100%	99%	99%	99%	97%	99%
SCHOOL OF NURSING	95%	94%	95%	95%	95%	95%
SCHOOL OF POPULATION HEALTH	--	--	90%	88%	88%	89%

2021 STUDENT ACHIEVEMENT METRIC:

PUBLICATION RATE

INSTITUTIONAL 5-YEAR AVERAGE: 100%
INSTITUTIONAL TARGET: 100% (goal)
INSTITUTIONAL THRESHOLD OF ACCEPTABILITY: 95%

**2022 AVERAGE: 100%
CRITERIA MET IN 2022: YES,
score met target and
exceeded threshold of
acceptability**

The 2022 first time publication rate was a **100%** which meets both the threshold of accountability and institutional target. For research-based, graduate degree programs, publication rate is an outcome relevant to some programs and students served. This metric calculates students as the sole first authors of at least one publication in a national or international peer-reviewed journal. Publication rates are measured as the percentage of graduating students that were published as the first author in peer-reviewed articles. Rates are manually tracked and finalized by each school. The primary calculation methods are first and second publications within a degree program. The publication rate is calculated for doctoral programs at the time of graduation.

The *target (goal)* for publication is **100%** which is set as the standard for programs with a research component. The threshold of acceptability (minimum limit) for the publication rate is **95%**. The expected outcomes for UMMC are much higher than other institutions reflecting the nature of student population UMMC serves, strong admission criteria, and rigorous programs of study. The average publication rate is the rate average per program.

**2022 STUDENT ACHIEVEMENT METRIC:
PUBLICATION RATES
for relevant programs**

SGSHS PUBLICATION RATES 2018-2022	BENCHMARK: 100% FIRST AUTHOR PUBLICATION (P1) RATE	BENCHMARK: 50% SECOND PUBLICATION (P2) RATE
PROGRAM	**P1 RATE**	**P2 PATE**
Biomedical Materials Science	100%	100%
Cell and Molecular Biology	N/A	N/A
Clinical Anatomy	100%	100%
Experimental Therapeutics and Pharmacology	100%	86%
Microbiology and Immunology	N/A	N/A
Neuroscience	100%	66%
Nursing	100%	50%
Pathology	100%	100%
Physiology	100%	100%
SGSHS AVERAGE PUBLICATION RATES	**100%**	**86%**
*One first author publication is required by the SGSHS		
**Secondary publication not currently required by the SGSHS but is assessed		

2022 STUDENT ACHIEVEMENT METRIC:

LICENSURE RATE

2022 INSTITUTIONAL 5-YEAR AVERAGE: 96%
2022 INSTITUTIONAL TARGET: 95% (goal)
2022 INSTITUTIONAL THRESHOLD OF ACCEPTABILITY: 92%

2022 AVERAGE: 97%*
CRITERIA MET IN 2022: Yes, Institutional Target Exceeded

The 2022 institutional licensure rate was **97%** which is higher than both the threshold of accountability and institutional target demonstrating the institutional goal is met. Licensure or certification is required for practicing clinicians graduating from many programs at UMMC. This metric calculates the percentage of students who successfully pass a state-level or national-level licensure or certification exam to become a licensed health care provider. Licensure rates are measured as the percentage of students that took and subsequently passed licensure/certification exams. Rates are manually tracked and finalized by each school.

The *target (goal)* for licensure rate is **95%.** The *threshold of acceptability* (minimum limit) for the licensure rate is **92%.** The expected outcomes for UMMC are much higher reflecting the nature of student population UMMC serves, strong admission criteria, and rigorous programs of study.

2022 STUDENT ACHIEVEMENT METRIC:
LICENSURE EXAM PASS RATES
BY DEGREE PROGRAM

PROGRAM	EXAM	2018	2019	2020	2021	2022	AVERAGE
SCHOOL OF DENTISTRY		100%	98%	100%	100%	100%	100%
Doctor of Dental Medicine	Regional Dental Licensing Exam	100%	91%	100%	100%	100%	**98%**
Bachelor of Science in Dental Hygiene	ADA National Dental Hygiene Board Examination	100%	100%	100%	100%	100%	**100%**
Bachelor of Science in Dental Hygiene	Mississippi State Board Of Dental Examiners	100%	100%	100%	100%	100%	**100%**
SCHOOL OF HEALTH RELATED PROFESSIONS		94%	96%	94%	93%	94%	94%
Bachelor of Science in Radiologic Science	ARRT Certification Exam - Radiography	100%	100%	100%	92%	96%	**98%**
Master of Science in Magnetic Resonance Imaging	ARRT Certification Exam (ARRT-MRI)	100%	100%	100%	100%	100%	**100%**
Master of Science in Nuclear Medicine Technology	ARRT Certification Exam (ARRT-Nuc Med)	100%	100%	100%	100%	100%	**100%**
Bachelor of Science in Histotechnology	ASCP BOC	--	--	0%	100%	100%	**67%**
Bachelor of Science in Medical Laboratory Science	ASCP BOC	100%	80%	91%	92%	75%	**88%**
Bachelor of Science in Medical Laboratory Science - Progression	ASCP BOC	100%	100%	---	---	---	**100%**
Master of Occupational Therapy	National Board Certification - Occupational Therapy	100%	98%	97%	100%	100%	**99%**
Doctor of Occupational Therapy	National Board Certification - Occupational Therapy	--	--	--	98%	100%	**99%**
Doctor of Physical Therapy	National Physical Therapy Examination	100%	96%	96%	98%	98%	**98%**
Master in Health Informatics & Information Management	RHIA Graduate Exam	100%	100%	100%	100%	67%	**93%**
Bachelor in Health Informatics & Information Management	RHIA Undergraduate Exam	85%	67%	80%	100%	100%	**86%**

SCHOOL OF MEDICINE		91%	92%	93%	98%	98%	93%
Doctor of Medicine	Step 1 Exam**	94%	91%	97%	97%	97%	**94%**
Doctor of Medicine	Step 2 CS Exam****	94%	94%	96%	---	---	**95%**
Doctor of Medicine	Step 2 CK Exam***	91%	95%	92%	98%	98%	**93%**
SCHOOL OF NURSING		99%	99%	94%	95%	95%	94%
Master of Science in Nursing	AANP	100%	84%	90%	84%	94%	**90%**
Post-Master's in Nursing	AANP	100%	82%	88%	82%	86%	**88%**
RN-MSN	ANCC Nurse Practitioner Certification Exam	100%	--	--	--	--	**100%**
Bachelor of Science in Nursing - Accelerated	NCLEX-RN	100%	100%	99%	100%	100%	**100%**
Bachelor of Science in Nursing - Traditional	NCLEX-RN	100%	100%	97%	100%	100%	**99%**

*Step 1 data is for the calendar year.
***Step 2 CK and CS data is for the academic year (July-June) ending in the year listed.
****Step 2 CS has been discontinued.

2022 STUDENT ACHIEVEMENT METRIC:
AVERAGE TIME TO DEGREE
INSTITUTIONAL 5-YEAR AVERAGE: 5.4 years
INSTITUTIONAL TARGET: 5.5 years (goal)
INSTITUTIONAL THRESHOLD OF ACCEPTABILITY: 6.4 years

2022 AVERAGE: 4.5 years
CRITERIA MET: YES, scores exceeded target and threshold of acceptability

Time to degree is a completion measure used instead of graduation rate for research-based, graduate programs. For example, master's and doctoral degrees in the School of Graduate Studies in the Health Sciences (SGSHS) represent degrees for which there is no appropriate fixed time for completion due to the nature and scope of research projects. National benchmarks for similar programs also track average time to degree. According to the Survey of Earned Doctorates, from 1998-2020, the national time to degree for PhD candidates in the life science fields sciences was 5.8 years. In the SGSHS, for those who graduated from 2018-2022, the mean time to doctoral degrees for individual degree programs, ranged from 3.8 to 5.9 years, with an overall time to degree of 5.1 years for all PhD programs. The PhD time to degree is calculated for the time to completion since starting the doctoral degree program.

In the School of Population Health (SOPH), for those who graduated from 2019-2022, the mean time to masters degrees for individual degree programs, ranged from 1.0 to 2.0 years, with an overall time to degree of 1.7 years for all MS programs. The MS time to degree is calculated for the time to completion since starting the degree program.

The institutional average time to PhD degree for academic year 2022 was **4.5 years** which is lower than both the threshold of accountability and institutional target demonstrating students are completing programs in a timely manner. Programs tracking time to degree include research-based master's and PhD degrees, which are housed within the School of Graduate Studies in the Health Sciences and the School of Population Health. The only program that did not meet the institutional target of 5.5 years was the PhD in Nursing program which is comprised of mostly part-time students. The Nursing program average for 2022 was 5.9 years to completion with a mean of 5.5 years.

2022 STUDENT ACHIEVEMENT METRIC: AVERAGE TIME TO DEGREE

PHD PROGRAM	2018	2019	2020	2021	2022	5-YEAR AVERAGE
Biomedical Materials Science	N/A	4.3	N/A	4.2	4.2	4.3
Cell and Molecular Biology	5.6	6.3	5.3	N/A	N/A	5.7
Clinical Anatomy	N/A	4.0	3.8	3.8	3.8	3.9
Experimental Therapeutics & Pharmacology	5.0	5.8	N/A	3.9	3.9	4.9
Microbiology and Immunology	5.1	5.1	5.9	N/A	N/A	4.8
Neuroscience	5.0	6.4	5.2	5.4	5.4	5
Nursing	5.7	4.5	6.9	5.9	5.9	5.5
Pathology	3.4	5.6	4.7	4.3	4.3	4.2
Physiology	N/A	5.6	4.7	4.0	4.0	4.3
SGSHS AVERAGE TIME TO PHD DEGREE						**5.1**

AVERAGE TIME TO DEGREE IN YEARS FOR MS DEGREE

NON-THESIS MS BENCHMARK: 1.9 YRS
THESIS MS BENCHMARK: 4.0 YRS

MS PROGRAM	2018	2019	2020	2021	2021	5-YEAR AVERAGE
Biomedical Sciences**	1.0	1.0	0.9	0.9	0.9	0.9
Clinical Anatomy*	N/A	N/A	N/A	N/A	N/A	1.8
Clinical Investigation+	1.9	1.8	1.7	1.7	1.7	1.6
Pathology*	N/A	N/A	N/A	N/A	N/A	1.0
SGSHS AVERAGE TIME TO NON-THESIS MS DEGREE						**1.4**
Biomedical Materials Science	2.8	N/A	N/A	N/A	N/A	2.8
Clinical Investigation-MFM	2.8	2.8	2.8	2.8	2.8	2.8
SGSHS AVERAGE TIME TO THESIS MS DEGREE						**2.8**
Biostatistics and Data Science	N/A	1.8	2.0	1.8	1.8	1.9
Population Health Mgmt	N/A	N/A	1.0	1.2	1.2	1.1
SOPH AVERAGE TIME TO NON-THESIS MS DEGREE						**1.5**
Population Health Science	N/A	N/A	1.8	2.1	2.1	1.9
SOPH AVERAGE TIME TO THESIS MS DEGREE						**1.9**

*Program closed in 2019.
**Average does not include Maternal Fetal Metal Medicine track data.