



2023 Catalog

Trinity School of Medicine

University Catalog 2023
Trinity Medical Sciences University

This catalog and handbook is an official publication of Trinity Medical Sciences University (TMSU) and is intended to provide general information. The document contains information about the institution, institutional governance, accreditation, administration, admissions, curriculum, graduation requirements, and course descriptions as well as other information and policies. Every effort has been made to ensure the information in the catalog is accurate at the time of publication. The catalog is not intended to address all the possible applications of, or exceptions to, the policies and procedures of Trinity Medical Science University, some of which are addressed in other official documents.

Students are responsible for observing any policies and regulations contained herein or in the policy course on Canvas, they must read this document carefully. This document does not contain all institutional rules, regulations, or policies for which students are responsible. Other University sources discuss expectations for and policies applicable to students.

The university reserves the right, through its established procedures, to modify the requirements for admission and graduation and to change other rules, regulations, and provisions, including those stated in this bulletin and other publications, and to refuse admission to any student, or to require the withdrawal of a student if it is determined to be in the interest of the student or the university. All students, full time or part time, who are enrolled in Trinity courses are subject to the same policies.

If you have a question about a specific policy or procedure, you should address your question to the Vice President of Student Services if you are in the admissions process or to the Associate Dean of Student Affairs if you are a member of the student body.

Publication of this catalog does not create a contractual relationship between Trinity Medical Sciences University and any other individual or organization. The contents of the catalog are subject to change without notice. The catalog is the authoritative source of information and in cases where this catalog conflicts with any other publication or policy of Trinity Medical Sciences University, the information in this catalog shall prevail and be considered the final official published policy of the institution. Only the President or Provost may grant or make exceptions to the information in the catalog based on their decision of what is best for the student and the University.

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Academic Calendars

Trinity School of Medicine

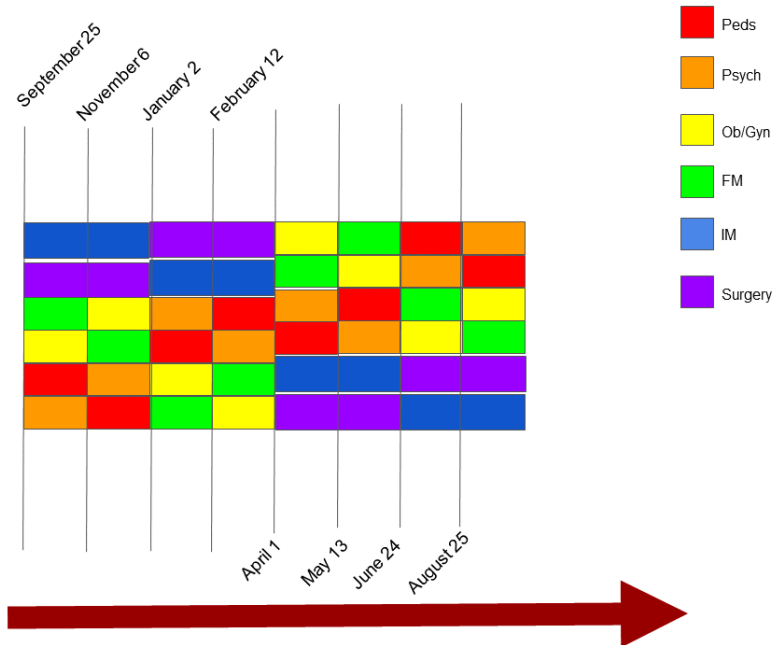
Preclinical Terms (Terms 1-4) and Clinical Transition Term (Term 5)

Term Dates	2023	2024
JANUARY TERM		
New Student Orientation	January 3, 2023	January 2, 2024
First day of classes	January 9, 2023	January 8, 2024
Last day to register	January 13, 2023	January 12, 2024
Last day of regular term	April 23, 2023	April 21, 2024
Break	April 24-May 7, 2023	April 22-May 5, 2024
MAY TERM		
New Student Orientation	April 28, 2023	April 26, 2024
First day of classes	May 8, 2023	May 6, 2024
Last day to register	May 12, 2023	May 10, 2024
Last day of regular term	August 20, 2023	August 18, 2024
Break	August 21-September 3, 2023	August 19-September 1, 2024
SEPTEMBER TERM		
New Student Orientation	August 25, 2023	August 23, 2024
First day of classes	September 4, 2023	September 2, 2024
Last day to register	September 8, 2023	September 6, 2024
Last day of regular term	December 17, 2023	December 15, 2024
Break	December 18, 2023 – January 7, 2024	December 16, 2024 – January 12, 2025

Preclinical terms 1-4 follow Vincentian Holidays

Term 5 follows US Holidays

Clinical Rotation Terms (Terms 6-10)



Vertical Lines = Clinical Start Dates

Clinical Terms follow USA Holiday Schedules

School of Biomedical Sciences

Premedical Program

TERM DATES	2022	2023	2024
JANUARY TERM			
New Student Orientation	January 5, 2022	January 6, 2023	January 5, 2024
First day of classes	January 17, 2022	January 16, 2023	January 15, 2024
Last Day to Register	January 21, 2022	January 20, 2023	January 19, 2024
Last Day of Regular Term	April 24, 2022	April 23, 2023	April 21, 2024
Break	April 25 – May 8, 2022	April 24 – May 7, 2023	April 22, 2024 – May 5, 2024
MAY TERM			
New Student Orientation	May 4, 2022	May 5, 2023	May 3, 2024
First day of classes	May 16, 2022	May 15, 2023	May 13, 2024
Last Day to Register	May 20, 2022	May 19, 2023	May 17, 2024
Last Day of Regular Term	August 21, 2022	August 20, 2023	August 18, 2024
Break	August 22 – September 4, 2022	August 21 – September 3, 2023	August 19 – September 1, 2024
SEPTEMBER TERM			
New Student Orientation	August 31, 2022	September 1, 2023	August 30, 2024
First day of classes	September 12, 2022	September 11, 2023	September 9, 2024
Last Day to Register	September 16, 2022	September 15, 2023	September 13, 2024
Last Day of Regular Term	December 18, 2022	December 17, 2023	December 15, 2024
Break	December 19, 2022 – January 8, 2023	December 18, 2023 – January 7, 2024	December 16, 2024 – January 12, 2025

*Premedical Terms follow Vincentian Holidays

About TMSU

History

Trinity School of Medicine was established in 2008 in St. Vincent and the Grenadines with its main campus in the town of Ratho Mill in the Parish of Saint George. Its founders, with great support from the local government, were committed to providing a quality medical education program for future physicians that met the highest standards internationally. In 2012, the School graduated its charter class. Over its years of operation, the School has steadily increased its academic resources and student enrollment. In addition to its core Doctor of Medicine (MD) degree program, The School has offered a premedical (non-degree) program and a Master of Health Science degree program.

In 2017, the School began the transition to a university structure. The legal name of the School was changed to Trinity Medical Sciences University (TMSU), comprised of two schools: the School of Biomedical Sciences and the School of Medicine. The former Premedical program and the Master of Health Sciences program became part of the School of Biomedical Sciences. The curriculum in the undergraduate program, formerly the Premedical program, was structured for students to earn a Bachelor of Science degree. The University structure best supports a broader range of academic outcomes for our diverse student population. The Board of Trustees approved the organization and curriculum changes and in July 2018, the formal transition to Trinity Medical Sciences University was publicly announced.

Because the School of Medicine continues to represent the substantial portion of enrollment at TMSU, TMSU and TSOM may be referred to interchangeably throughout this document. Aspects of the University that are common across its Schools are discussed in the TMSU section of this document. Aspects specific to the School of Medicine and the School of Biomedical Sciences are discussed in separate sections hereunder.

Mission Statement

Trinity Medical Sciences University is a community of professionals committed to excellence in education, research and scholarly activity, patient care and well-being, and community service.

Vision Statement

Become a leading student-focused health sciences university by cultivating a team spirit approach to delivering value to the communities we serve.

Core Values

INTEGRITY: Unwavering adherence to professional and ethical conduct.

RESPECT AND HONESTY: Conducting ourselves in a manner that respects the value of each individual.

COMPETENCE: Demonstrating mastery of the skills of one's profession or vocation.

COMPASSION: Showing empathy and concern for the well-being of others.

STRIVING FOR SUCCESS: Performing at the highest level possible.

SERVICE: Offering our talents and skill toward betterment of our communities.

COLLABORATION: Working together and respecting each other's contributions.

Strategic Goals

Three strategic goals form the foundations of commitment to the core values:

Goal 1: Enhance student success - TMSU is committed to excellence in the education of its students. The faculty and administration seek to identify initiatives and strategies that will continue to provide and improve opportunities for students to achieve success.

Goal 2: Enhance research and scholarly activity - TMSU recognizes that research and scholarly activity demonstrate a commitment to educational growth by faculty and model lifelong learning for students. The University is committed to strengthening support for initiatives, particularly in medical education, that create an environment open to personal growth.

Goal 3: Promote service to the community - TMSU believes that students will make a difference in the world beginning with participation in opportunities and connectivity to communities. TMSU is committed to developing these opportunities.

Recognition & Accreditation

Trinity School of Medicine is registered with the **National Accreditation Board (NAB)** of the Government of St. Vincent and the Grenadines.

Trinity School of Medicine is accredited by the **Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP)**, the legally constituted body established to accredit medical programs in the Caribbean and the **Georgia Non-Public Post Secondary Education Commission**.

CAAM-HP accredited schools in St. Vincent have been recognized by the U.S. Department of Education as accredited at a standard comparable to United States

School of Medicine

medical schools, as so governed by the LCME. Not only is Trinity School of Medicine one of those schools, it is the only CAAM-HP accredited school in the country of St. Vincent and the Grenadines at this time.

Trinity School of Medicine is listed in the World Directory of Medical Schools, a directory developed through a partnership between the World Federation for Medical Education (WFME) and the Foundation for the Advancement of International Medical Education and Research (FAIMER); FAIMER was established in 2000 by the U.S. Educational Commission on Foreign Medical Graduates.

The listing in FAIMER/IMED and the assignment of a code provides the sanction for Trinity students to register for and take the USMLE Step 1, Step 2, and Step 3 examinations. Students who successfully complete Step 1 and Step 2 (CK), and otherwise meet the requirements for graduation from Trinity, are then authorized by the Educational Commission on Foreign Medical Graduates (ECFMG) to register for and participate in the National Residency Match Program (NRMP) as well as the Canadian Resident Matching Service (CaRMS).

Finally, Trinity School of Medicine is compliant with the Education Committee for Foreign Medical Graduates (ECFMG) 2024 Rule dictating that all international medical graduates be required to have graduated from a school that has been appropriately accredited.

Questions or concerns regarding the University's accreditation should be directed to

CAAM-HP at CAAM-HP Secretariat, Suite #7
Pinnacle Point, 53 Lady Musgrave Road
Kingston 10, Jamaica
875-927-4765.

The purpose of publishing the commission's contact information is to enable interested parties 1) to learn about the accreditation status, 2) to file a third-party comment at the time of the institution's review, or 3) to file a complaint against the institution for alleged non-compliance with a standard or requirement.

Approach to Learning

TMSU strives to incorporate state of art proven medical curricula and teaching approaches by using a multi-modality approach.

Teaching Approach and Didactic Methods

A comprehensive description of formats, didactic concepts and educational methodology used in TSMU-SBS and TSMU-SOM courses can be found in the individual course syllabi. In

clinical clerkships, these are found in the Clinical Clerkship Manual for each elective I clerkship.

Defined Course Objectives

- Each course has learning objectives and includes a plan that will guide students through mastery of those objectives.
- The use of appropriate assessment tools to ensure students meet the required objectives.
- Exams that assess student preparation, participation, critical thinking skills, and knowledge application.
- Evaluation through various formats that assess each student's capabilities to demonstrate problem solving and conduct.

Early Clinical & Community Medicine Experience

Clinical exposure starts the first term of the School of Medicine doctor of medicine degree program and continues throughout all terms. These experiences provide for the development of clinical skills required during the clinical portion of a student's education.

External (Standardized) Exams

Medical subject exams issued by the U.S. National Board of Medical Examiners (NBME) are administered to Trinity students in term 1 (Biochemistry, Histology), term 2 (Anatomy and Physiology), and term 4 (Pathology, Pharmacology, Behavioral Science Microbiology). Exam security is approved by the NBME. Results provide unbiased and direct evidence of the performance of TMSU medical students compared to their U.S. peers.

Students are required to take the exam at the scheduled time. The 2-digit score provided by NBME will count as 25% of the course grade. Students who do poorly on this exam may fail the course if the overall course grade is less than 70%. Students who pass the NBME and the internal portion of the class will pass the class.

A passing score on the CBSE is required to sit for the USMLE Step 1. As of writing this catalog, a score of 65 is the passing score for the CBSE. This score is used because this score affords a student who continues to prepare, an 85% chance of passing USMLE Step 1 if taken within 30 days. Students must pass USMLE Step 1 before starting the elective I clerkships.

Students who cannot pass USMLE Step 1 within the NBME allowed 4 times will not be able to train in the United States or Canada in a residency.

Due to the elimination of USMLE Step 2 CS, in the 4th year, students are required to take and pass an OSCE exam, integrating (virtual or live) standardized patients into a clinical skills examination. The results of this, paired with clinical evaluation in rotations, provides the summative evaluation for clinical skills needed for the ECFMG certification of our graduates,

NBME Basic Science and Clinical (Shelf) Exams

NBME Basic Science subject tests will be used after some term 1-4 classes. These as stated above need to be passed to progress into next term.

Students must pass an NBME Shelf Exam at the end of each of the elective I (core) rotations. These rotations are Family Medicine, Internal Medicine, Ob/Gyn, Pediatrics, Psychiatry, Surgery. These national exams are graded in the following manner. Shelf exam grading is based on the most recent normative data published by NBME. Please see each core rotation's (E1) Canvas page for specifics.

The policy for a failure of one or more NBME Shelf Exams is presented on page 29 of this manual.

Faculty Teaching Approach

1. Establish and maintain highest academic standards in keeping with best international practices.
2. Create a productive, collegial, and honest teaching environment of the highest caliber that strives for excellence in academic content and in methods of its delivery.
3. Embrace the values of the medical profession and incorporate those values into our curriculum.
4. Integrate basic and clinical sciences throughout the doctor of medicine program utilizing Milton Cato Memorial Hospital and its clinics on St. Vincent and the Grenadines.
5. Continuously improve Trinity Medical Sciences University curriculum so that it responds to and incorporates changes in science, medical knowledge, and practice.



Trinity School of Medicine

Doctor of Medicine

Admissions

TMSU is a private institution and encourages applications from qualified students who are interested in pursuing a career in medicine and health sciences.

Trinity School of Medicine

Trinity School of Medicine is building a tradition of excellence for its academic programs and dedicated, engaged faculty. TMSU-SOM is known for an education environment emphasizing academic excellence and the education of caring, compassionate physicians who place patients' needs above all other concerns.

Doctor of Medicine

Academic Prerequisites

A minimum of 90 credit hours (or equivalent) is required from a regionally accredited undergraduate institution and the completion of the required courses below prior to matriculation.

General Biology: one academic year or equivalent. Advanced placement credits can be used to satisfy this requirement.

Inorganic Chemistry: one academic year or equivalent.

Organic Chemistry: one academic semester. Biochemistry / Molecular Biology / Genetics may be substituted for organic chemistry.

Mathematics: one semester of college level mathematics (trigonometry or analytic geometry), **calculus or statistics highly recommended.**

English: any non-science courses that involve expository writing will satisfy this requirement.

*While **physics** is not a requirement, to be well prepared students are encouraged to seek courses that provide a foundational understanding of fluids, gases, and pressure variations.*

All prerequisites should be < 10 years old. Older completion dates will be considered on a case-by-case basis. Students not meeting the above requirements may apply to the School of Biomedical Sciences to obtain these prerequisites.

MCAT

Medical College Admissions Test (MCAT) scores are required for U.S. applicants (and encouraged for all applicants). Scores must be from exams taken within the last 10 years. Affiliate Institution waiver where applicable through program assessment.

An access code for release of certified test results is requested from the Association of American Medical Colleges (AAMC). The MCAT requirement is not applicable for transfer applicants (see below).

Application & Supporting Documentation

The following items must be provided for admissions consideration:

Completed Application for Admission - Applicants may submit copies of common applications (AMCAS, AACOMAS, TMDSAS, OMSAS) or complete the **Online Application** on the Trinity School of Medicine website.

Application fee of \$50 (U.S.)

Letter(s) of Recommendation - Must come directly from the letter writer. Recommended sources are your university pre-health advising office, professors, physicians, and supervisors who are not family members and who can confirm the applicant's academic ability and/or provide evidence of positive character traits. A committee that prepares such letters may satisfy this requirement with one packet; otherwise, two letters must be provided, one of which must be from an academic source.

Transcripts must be submitted from all undergraduate colleges, graduate and/or professional programs attended. If previous credits have been evaluated and awarded by an accredited university, official transcripts from prior programs may not be necessary as determined by the Registrar's office. Unofficial transcripts are acceptable to initiate the admissions process. Prior to matriculation, official transcripts must be submitted to the Office of Admissions and Registrar.

Transfer Policy

1. Transfer students must be transferring from an accredited U.S. or Canadian medical school or an international school that is appropriately accredited. If transferring from an international school, the school must be listed with the World Directory of Medical Schools (WDMS) and the student must have earned their credits within the period that ECFMG has provided as eligible to apply for certification (see Sponsor Notes section of the medical school on the WDMS website).
2. If the medical school is in a country that has adopted CAAM-HP as the accrediting body, the school must have CAAM-HP accreditation or equivalent (i.e., ACCM accreditation).

School of Medicine

3. If transferring from a school that has obtained Accreditation Commission on Colleges of Medicine accreditation (ACCM), it must have at least ACCM provisional accreditation on ACCM website
 4. Per current ECFMG rule, a student may only transfer once during medical school or lose credits from first school.
 5. A transfer student should not have been out of school for more than one year at the time of application. This includes time a student may be on leave to study. If a student has been out more than one year, the student must provide a written explanation to the Admissions committee to be considered. If the applicant has taken the MCAT in the past, the score should be included in the information submitted to the Admissions Committee.
 6. Applications for Transfer will be considered for students who will enter in Terms 1 through 5. If applying for transfer into clerkships, student must have passed USMLE Step 1 on the first attempt and send official document to Admissions. No previous clerkship credits will be honored.
 7. All accepted transfer students may defer for one term for financial or other significant reasons after seat deposit is paid.
 8. Transfer students must submit a complete application along with their transcripts from their current or previous medical school, along with their undergraduate /graduate transcripts.
 9. Applications will not be reviewed prior to the receipt of all documents.
 10. Interviews should be scheduled with an Admissions Counselor. Following the interview, a recommendation will be made to the Admissions Committee.
 11. If a class carries significantly more credit hours at TSOM than at the student's transfer school, the student must repeat the course.
 12. If a class taken at a prior school is a block course and the subject represents a portion of a course at TSOM, no credit will be awarded for the subject.
 13. Transfer credits may not be awarded for course work for classes not required at Trinity.
 14. The Associate Dean for Admissions in consultation with the Admissions Committee and Office of the Registrar, will develop a study plan to be sent to the student with any offer of acceptance. Transcripts will not be subject to review prior to a complete application being submitted to the Admissions Committee.
 15. All incoming transfer students must be aware of and be willing to comply with and sign off on all Trinity School of Medicine health requirements
- and deadlines as outlined in the catalog and student handbook.
16. Once a transfer student has been accepted into Terms 1-4, Trinity School of Medicine will further evaluate course progression and potential overlaps in class schedules.

School of Medicine

General Guidelines for **Transitional Term Transfer Students** (Transfer into Term 5):

1. If an applicant has successfully completed a course of study in the basic sciences, but has not been cleared to take Step 1 of the USMLE, that student must start in Term 5 and take both CLMD 405 (Introduction to Clinical and Community Medicine V) and CLMD 406 (Integrated Systems Review).
2. If an applicant has successfully completed a course of study in the basic sciences and has been cleared to take the USMLE Step 1 by their previous school, but was dismissed for missing the deadline, that student must start in Term 5 both CLMD 405 (Introduction to Clinical and Community Medicine V) and CLMD 406 (Integrated Systems Review).
3. Continuing into clerkships is contingent upon the following:
 - a. Successful completion of both CLMD 405 (Introduction to Clinical and Community Medicine V) and CLMD 406 (Integrated Systems Review).
 - b. Successfully meeting the minimum CBSE requirement for CLMD 406
 - c. Passing USMLE Step 1
4. Successful completion will allow students to be in good academic standing

General Guidelines for **Clinical Term Transfer Students** (Transfers into Term 6):

1. No credit will be given for any elective I or elective II clerkships or rotations completed while enrolled at another school.
2. Students who have failed USMLE Step 1 are not eligible to apply for transfer.
3. Applicants must be able to submit an official transcript from their previous undergraduate and medical school at the time of starting clerkships.
4. No clerkship will be scheduled until all official transcripts are received. A first time pass of USMLE Step 1 is required for transfer into term 6.
5. Although an MCAT score is not required of a transfer applicant, if the applicant has taken the MCAT in the past, the score should be included in the information submitted to the Admissions Committee.
6. If a transfer applicant has been dismissed from the previous school because of poor performance in clerkships, he/she must furnish a letter from the Dean or member of the leadership explaining the circumstances.

7. All accepted Term 6 transfer students may defer for one term with a letter explaining the reason wishing a deferral or leave of absence. Each circumstance will be reviewed on a case-by-case basis.
8. All Term 6 transfers must be prepared to submit background checks, certifications, visas and all other documents as required by Trinity School of Medicine and the hospitals where they will be working a **minimum of one month prior to beginning clerkships**.
9. No clerkships will be scheduled until all credentialing documents are received and processed by the appropriate clinical offices.
10. Transfer students into Term 6 must be aware of, be willing to comply with, and sign off on all applicable Trinity School of Medicine and hospital health requirements, completely and in a timely manner, prior to beginning Term 6.

Transfers will be accepted based on their individual applications and the availability of adequate educational resources to accommodate their needs without compromising the needs of other students. In the latter instance, an applicant may be waitlisted or offered a delayed entry.

Re-Admission Policy

Any student who has withdrawn in good standing (separate from a requested leave of absence) from TMSU and wishes to reapply for the undergraduate or MD programs must follow all of the processes and procedures of the regular admissions process. In addition, applications for readmission must be accompanied by transcripts for any academic work since leaving TMSU.

Consideration is given to the complete record of each applicant, the length of absence, the activities undertaken during the absence and the number of student places available in the class. Readmission is not guaranteed and, if approved, may be conditional. Readmission may require performance of specific tasks at a specific standard, prior to or following readmission.

Any student who was dismissed from TMSU for professionalism reasons will not be considered for readmission.

Previous Attendance at Foreign Institutions

Applicants with college credit at foreign institutions, or institutions teaching in a language other than English, must submit official foreign transcripts to one of the following evaluation services as part of the admissions processes.

Those applicants applying in either of the following situations:

- a. as a new, first time student but has attended a non-U.S. college or university for any portion of their undergraduate degree, or
- b. as a transfer student from a non-U.S. medical school whose curriculum differs from U.S. medical education curricular standards must have their college/university level courses evaluated by one of the consultants listed below.

Educational Credential Evaluators, Inc.

PO Box 514070
Milwaukee, WI 53203-3470
Phone: 414-289-3400

Josef Silny and Associates International Education
Consultants 7101 SW 102 Avenue
Miami, FL 33171

World Education Services, Inc. PO Box 745 Old Chelsea
Station New York, NY 10113-0745
Phone: 212-966-6411

TMSU will consider credit only if an internal review or the evaluation service has indicated the coursework taken was similar to coursework taken at an institution that is comparable to a regionally accredited U.S. Institution of higher learning.

Trinity School of Medicine will maintain the right to conduct background and educational credential verification at any time during student enrollment with the institution. These reviews may include, but are not limited to, identity verification, Visa viability review, employment verification, credit history, driver's history, criminal records, and educational credential confirmation.

TUITION AND FEES FOR Fall Term 2023 and 2024

	Per Term	No of Terms	Total for Degree Program
Tuition			
Basic Sciences (Years 1, 2)	\$15,200	5	\$ 76,000
Basic Sciences - Tuition per Credit Hour for Repeated Courses	1,013		As incurred
Term 5 1 st Remediation	15,200		As incurred
Term 5 2 nd Remediation	7,600		As incurred
Term 6 1 st Remediation	7,600		As incurred
Term 6 2 nd Remediation	425		As incurred
Term 6 3 rd Remediation	425		As incurred
Clinical Medicine (Years 3, 4)	16,900	5	84,500
Fees			
Records Administration Fee	425	10	4,250
Student Activity Fee	50	10	500
Student Health Insurance	1010	10	10,100
Malpractice Insurance	233	5	1,165
NBME Test Fees	150	10	1,500
USMLE Exam Prep Fees	125	10	1,250
New Student Fee (Initial term)	475	1	475
Equip and Supplies Fee (Term 1-4)	100	4	400
Total Tuition and Fees			\$ 180,140

Tuition Policy

Terms 1-4 and Term 5

All Active Students will pay the full-time tuition rate in effect for each Calendar Term in which they are classified as Full-Time Students. Total tuition for Academic Terms 1- 5 will be capped at an aggregate amount equal to five (5) academic terms at the full-time tuition rate then in effect for each completed term, plus (ii) Repeated Credit Hours at the hourly tuition rate in effect in the Calendar Term in which they are billed. First repetition of Term 5 (course 407) is billed at full tuition. Second repetition of Term 5 (course 408) is billed at half tuition.

If during any Calendar Term during Academic Terms 1-5 an Active Student is classified as a Part-Time Student, the student will pay tuition at the part-time tuition rate per credit hour in those Calendar Terms. The same aggregate tuition for Terms 1-5 as set forth in the previous paragraph will apply for students who have been classified in one or more terms as a Part-Time Student. Any resulting tuition adjustment will be applied to the student's account in Academic Term 5. Term 5 itself (405/406, or 407 or 408) cannot be taken part-time. If a student passes CBSE in 3rd week of either remediation term 407 or 408, tuition is applied to Term 6.

In order to advance to Clinical Clerkships (Year 3), each student must pass an assessment (Comprehensive Basic Sciences Exam (CBSE)) and the USMLE Step 1 Exam. The CBSE is offered twice in Term 5. If not passed, it is offered a total of three more times (5 total). A student takes USMLE Step 1, soon after passing the CBSE.

Students who do not pass CBSE during Academic Term 5 must remediate Academic Term 5. The tuition amount shown in the table above is incremental to the cap applied to tuition for Academic Terms 1-5. Students who pass CBSE will advance to Academic Term 6 to prepare and sit for the USMLE Step 1 Exam and if successful to proceed to Clerkships. Students who do not pass USMLE Step 1 during academic Term 6 must remediate academic Term 6.

If failure of CBSE, USMLE I, or USMLE II occurs, students meet with the Assoc. Dean of Clinical Sciences and Curriculum to assess learning style, evaluate where deficits exist and devise a plan. They will be enrolled in 407 or IDIS501 (respectively) and follow a learning plan based on the determination of their individual learning style.

Students who fail Step 1, must repeat Term 6 by attending IDIS501 (non-credit). This is - 1st remediation of Term 6. Students must pass an objective exam equivalent to the NBME CBSE exam if the student has no further CBSE exams available (5 available and 5 were used). TSOM will provide an objective exam that it considers the equivalent of the CBSE exam for students that have no CBSE exam attempts available. If the student passes either the CBSE again or the objective exam, student will be allowed to sit for the Step 1 exam again, until all 4 attempts allowed by the USMLE have expired following the same or similar procedure as approved by the Associate Dean of Clinical Sciences and the Dean. Term 6 remediation course(s) (IDIS502) will be allowed at the tuition price of \$100.00 and the Records Administration Fee (currently \$425.00) for remediation terms.

Terms 6-10

Full-Time Tuition will be billed for each consecutive Calendar Term in which a student is classified as an Active Student. Total tuition for Academic Terms 6-10 will be capped at an aggregate amount equal to five (5) terms plus Repeated courses or clerkships and their associated Credit Hours at the hourly tuition rate in effect in the Calendar Term in which they are billed as described above or as applicable.

All Academic Terms in which a student is enrolled at Trinity are tuition-paying terms pursuant to the foregoing tuition table, unless the student has requested and been granted a Leave of Absence or has reached applicable tuition caps. Students reaching tuition caps will be assessed the records administration fee per academic Term (\$425 currently) plus \$100 in tuition in order to qualify as an active student for student loan purposes.

Clerkship students will have the opportunity to take and pass the Step 2 CK exam in each of the three IDIS 600, IDIS 601 and IDIS 602 courses. Students who have not passed their Step 2 CK exam by the end of the third course will be registered for IDIS 603 until such time as they have either passed the exam or exhausted their allowable attempts by USMLE rules.

Students who are dismissed, withdraw, or otherwise cannot advance, will not be eligible for a refund of tuition or fees.

Fees

Standard fees include; Records Administration Fee, New Student Fees, Student Activity Fee, NBME exam fees, Equipment and Supply Fee and USMLE Step exam prep fees.

Health Insurance.

Students are required to carry University-provided health insurance during all terms in which they are actively enrolled in course activities conducted in St. Vincent and the Grenadines or in the clinical transition term and clerkships in the U.S.

Students taking Online courses in the School of Biomedical Sciences are not eligible to enroll in the student health insurance plan.

Vincetian students are exempt from plan enrollment during terms of study in St. Vincent. Eligible students will be automatically enrolled for individual coverage and may elect dependent coverage at additional premium cost if offered by the program. Dependent coverage is not guaranteed and may or may not be available in the future.

Malpractice Insurance. At all times that a student is engaged in clinical rotations (Years 3 and 4), students are required to carry malpractice insurance. The University provides the coverage through its insurance carrier and bills students for each academic term in which the student is continuing in clerkship rotations.

Note: The above fees are charged at the beginning of each term. Tuition and fees are subject to change at the start of each academic year.
The tuition refund shall follow the Institutional Refund Policy; please review policy below for details.

Books

The approximate costs for course textbooks are as follows. Most textbooks are available digitally at no additional cost to students. Purchase of print copies of those texts is optional for students at costs approximating the following.

Terms 1-5 Textbooks \$1300.00

Terms 6-8 Textbooks \$ 300.00

Credit/Refund Policy

Credit Events

Students may be eligible to receive credits of previously billed tuition and fees in the following circumstances (Credit Events):

1. Course registration changes resulting in adjustment of applicable tuition (see Tuition policy)
2. Approved leave of absence
3. Withdrawal/Dismissal from the University
4. A credit balance resulting from overpayment of billed tuition and fees

Withdrawal/Dismissal and Approved Leave of Absence

Upon the effective date of a Credit Event in accordance with University Policy, Tuition and fee credits will be determined as follows:

1. Prior to start of a Calendar Term. A full credit will be applied to the student's account statement for all tuition, housing and fees billed for the upcoming Calendar Term.
2. During the first week of a Calendar Term:
 - Tuition – Full credit
 - Housing – Full credit, less U.S. \$500 housing deposit
 - Other student fees – No credit
 - Student health Insurance – Prorated credit
 - Malpractice insurance – Prorated credit.
3. After the first week but before the end of the sixth (6th) week of a Calendar Term:
 - Tuition – Prorated credit
 - Housing – Prorated credit, less U.S. \$500 housing deposit
 - Other student fees – No credit
 - Student health Insurance – Prorated credit
 - Malpractice insurance – Prorated credit
4. After the end of the sixth (6th) week of an academic term:
 - Tuition – No credit
 - Housing – No credit
 - Other student fees – No credit
 - Student health Insurance – No credit
 - Malpractice insurance – No credit

Tuition Credits and other Student Account Adjustments

Tuition adjustments for reduction of course credits below the Full-Time Tuition threshold and any other student account credits shall be credited to the student's account. Such credits are not refundable except in the event of withdrawal, dismissal or approved leave of absence (see above). Credits will be applied against future Calendar Term invoices.

Student Refund Procedures

In the event that tuition and fee credits and adjustments described above result in a credit balance in the student's account, the credit balance will be retained on account and applied to tuition and fee billings in the next succeeding academic term, except in the event of withdrawal or dismissal from the University (Refund Event).

The maximum amount refundable upon the occurrence of a Refund Event is the net credit balance in the student's account after application of all allowed tuition and fee credits (see above). The student must submit a refund request form to initiate refund processing, which shall be completed by the University within 10 days.

1. If the credit balance results from payment from a student loan provider, TMSU will apply the applicable refund as follows:
 - First, up to the amount of allowed tuition and fee credits, to the applicable loan provider.
 - Then, any remainder to the student in accordance with electronic payment instructions from the student.
2. If the credit balance results from payment by the U.S. Department of Veterans Affairs (VA), any refund will be administered in accordance with VA policies.
3. If the credit balance results from payment by any other third party (grant, sponsorship, etc.), TMSU will require written instructions from the third party before release of the refund to the student or the third party.
4. If the credit balance results from payment by the student, the refund will be issued to the student by electronic payment to the account from which the applicable payment was made.

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STUDENT FINANCIAL AID

Financial Planning

The Office of Student Services supports and provides information, guidance, and counseling to students in the development of their student financial plans.

Student budgeting worksheets for the Premedical and Medical programs are available through online resources of the Office of Student Services. These budgeting tools are designed to help students plan and arrange adequate financial resources to complete their full degree programs.

Funding Sources

U.S. Students – Student Loans

TMSU does not participate in U.S. Title IV Federal Loan Programs. Students are not required to complete a FAFSA form.

TMSU has made arrangements with certain private student loan organizations to offer student loan programs for TMSU students. Program descriptions and corresponding application and disbursement instructions are available through the online resources of the Office of Student Services.

TMSU has no affiliation with any student loan organizations and earns no fees or other compensation for the placement of student loans through these organizations.

The Office of Student Services provides advisory assistance to students in budgeting, planning and applying for student loans to improve their likelihood of success in securing loan funds. However, the availability of credit through these student loan organizations is based solely on the credit quality of the loan applicant. TMSU has no involvement or responsibility in credit approval decisions and makes no representations or warranties regarding the availability of credit to any student.

U.S. Students - Veterans Benefits

TMSU is recognized by the United States Veterans Administration for the administration of Post 911 GI Bill and other related benefits programs.

Students eligible for veterans' benefits should review the U.S. Veterans GI Bill Program in the online resources of the Office of Student Services for information on securing benefits while attending TMSU. Benefits can include funds for tuition, fees, housing, and textbooks.

Canadian Students - Loans

Students can submit applications for provincial and federal financial assistance for all provinces and territories with the exception of Quebec, which does not fund international schools outside of Canada.

Students should contact their respective Provinces and Territories for a complete explanation of the various financial aid and loan programs that may be available to them. Please note that our Canadian Loan Institution Code is ZUCF.

Many Canadian banks have Medical Student Lines of Credit or similar programs and may offer funding for MD degree programs. The Office of Student Services can provide assistance in identifying participating banks and can also provide verification of enrollment letters and other documents as necessary to support loan applications.

SCHOLARSHIPS AND GRANTS

Trinity School of Medicine offers a variety of scholarships and grants to students, in addition to student awards available from 3rd party sources (VA, Mustique, SVG Bursary, etc.). The Office of Student Services will assist incoming students in identifying available awards and submitting applications for those awards. This section covers TMSU- provided awards.

Scholarships are criteria-based awards for duration of degree program, subject to minimum performance criteria to retain the scholarship each Term.

- President's Scholarship
- Chancellor's Scholarship
- Dean's Scholarship
- Physician's Scholarship
- Vincentian Scholarship

Grants are awards to address hardship, to recognize prior meritorious service in health fields, and to address specific economic conditions such as currency fluctuation, etc.

Applicants and students desiring to apply for scholarships and grants should contact the Office of Student Services.

School of Medicine

Health & Minimum Technical Standards

The Trinity School of Medicine has developed technical standards to assist in determining whether applicants for admission or candidates seeking the degree of Doctor of Medicine are qualified to pursue a career in medicine. This section contains the technical standards of the School of Medicine. The technical standards are based on guidelines produced by the Association of American Medical Colleges (AAMC). All applicants who reach the interview stage will be required to read the Technical Standards and to sign a copy to indicate that they understand its contents. The signed form is kept as part of the record of all matriculating students.

Medicine is a physically and mentally demanding profession in which practitioners are asked to place the interests of their patients above their own. It requires a commitment to a life of service and dedication to continuous learning. The rigorous four-year medical school curriculum is where candidates begin to develop the qualities necessary for the practice of medicine. It is during this period of medical education that the candidate acquires the foundation of knowledge, attitude, skills, and behaviors that he or she will need throughout his or her professional career. During this period, it is critical for the School of Medicine to evaluate whether the candidate is qualified to receive a degree of Doctor of Medicine. The School of Medicine has a responsibility to society to train physicians competent to care for their patients with critical judgment, broadly based knowledge, and well-honed technical skills. The abilities that physicians must possess to practice safely are reflected in the technical standards that follow.

Thus, applicants and students must be able to meet these standards, with or without accommodations, and successfully complete all identified requirements to be admitted to the School of Medicine, to progress through the curriculum and ultimately, to receive the degree of Doctor of Medicine. Requests for reasonable accommodations are reviewed individually, on a case-by-case basis, with a complete and careful consideration of all the skills, attitudes and attributes of each candidate to determine whether there are any reasonable accommodations or available options that would permit the candidate to satisfy the standards. An accommodation is not reasonable if it poses a direct threat to the health or safety of self and/or others, if making it requires a substantial modification in an essential element of the curriculum, if it lowers academic standards, or if it poses an undue administrative or financial burden. Except in rare circumstances, the use by the candidate of a third party (e.g., an intermediary) to perform any of the functions described in the Technical Standards set forth above would constitute an unacceptable substantial modification.

Visual: Candidates must be able to observe and participate in experiments in the basic sciences, for example, physiologic and pharmacologic demonstrations, and microscopic studies of microorganisms and tissues. In order to make proper clinical decisions, candidates must be able to observe a patient accurately. Candidates must be able to acquire information from written documents, films, slides, or videos. Candidates must also be able to interpret X-ray and other graphic images, and digital or analog representations of physiologic phenomena, such as EKGs with or without the use of assistive devices. Thus, functional use of vision is necessary (close and at a distance).

Oral-Auditory: Candidates must be able to communicate effectively, sensitively and quickly with patients (must be able to speak and hear) and members of the health care team (both verbal and written). Candidates must be fluent in English. In emergency situations, candidates must be able to understand and convey information essential for the safe and effective care of patients in a clear, unambiguous, and concise fashion. In addition, candidates must have the ability to relate information to and receive information from patients in a caring and confidential manner.

Motor: Candidates must possess the motor skills necessary to perform palpation, percussion, auscultation and other diagnostic maneuvers. Motor skill demands require reasonable endurance, strength, and precision. Candidates should have sufficient motor function to be able to do basic laboratory tests (such as urinalysis or CBC), carry out diagnostic procedures (such as proctoscopy or paracentesis) and read EKGs and diagnostic images. A candidate should be able to execute motor movements reasonably required to provide general care and emergency treatment to patients. Examples of emergency treatment reasonably required of physicians are cardiopulmonary resuscitation, administration of intravenous medication, application of pressure to stop bleeding, opening of obstructed airways, suturing of simple wounds and performance of simple obstetrical maneuvers. Such actions require coordination of both gross and fine muscular movements, equilibrium and functional use of senses of touch and vision.

Sensory: Candidates need enhanced sensory skills, including accuracy within specific tolerances and functional use for laboratory, classroom, and clinical experiences. Students who are otherwise qualified but who have significant tactile sensory or productive disabilities must be evaluated medically. These disabilities include individuals who have been injured by significant burns, have sensory motor deficits, cicatrix formation, or malformation of upper extremities.

Strength and Mobility: Candidates must have sufficient posture, balance, flexibility, mobility, strength, and

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endurance for standing, sitting and participating in laboratory, classroom, and clinical settings.

Cognitive: To effectively solve clinical problems, candidates must be able to measure, calculate, reason, analyze, integrate, and synthesize in a timely fashion. In addition, they must be able to comprehend three-dimensional relationships and understand the spatial relationships of others.

Social: Candidates must possess the emotional health required for the full utilization of their intellectual abilities; for the exercise of good judgment needed for the prompt completion of all responsibilities attendant to the diagnosis and care of patients; and for the development of effective relationships with patients. Candidates must be able to tolerate physically taxing workloads and function effectively under stress. They must be able to adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of patients. The unpredictable needs of patients are at the heart of becoming a physician. Academic and clinical responsibilities of students must require their presence during day and evening hours, any day of the week. Students will be judged not only for their scholastic accomplishments, but also on their physical and emotional capacities to meet the full requirements of Trinity's curriculum, and to graduate as skilled and effective practitioners of medicine.

Conclusion/Attestation

The following technical requirements apply:

- Is the candidate able to observe demonstrations and participate in experiments in the basic sciences?
- Is the candidate able to analyze, synthesize, extrapolate, solve problems, and reach diagnostic and therapeutic judgments?
- Does the candidate have sufficient use of the senses of vision and hearing, and the somatic sensation necessary to perform a physical examination? Can the candidate perform palpation, auscultation, and percussion?
- Can the candidate reasonably be expected to relate to patients and establish sensitive, professional relationships with patients?
- Can the candidate reasonably be expected to learn and perform routine laboratory tests and diagnostic procedures?
- Can the candidate reasonably be expected to communicate the results of the examination to the patient and to his colleagues with accuracy, clarity, and efficiency?
- Can the candidate reasonably be expected to perform routine invasive procedures as part of

training using universal precautions without substantial risk of infection to patients?

- Can the candidate reasonably be expected to perform with precise, quick, and appropriate actions in emergency situations?
- Can the candidate reasonably be expected to display good judgment in the assessment and treatment of patients?
- Can the candidate reasonably be expected to possess the perseverance, diligence, and consistency to complete the medical school curriculum and enter the independent practice of medicine?
- Can the candidate reasonably be expected to accept criticism and respond by appropriate modification of behavior?

All applicants to Trinity Medical Sciences University will be required to attest to their ability to meet all technical requirements prior to review by the Admissions Committee. Advancing students from the Premedical Program must attest to the same.

ACADEMIC PROGRAM - MD

Competency Based Objectives

TMSU faculty are charged with meeting the following Competency Based Objectives through all courses and clerkships.

Medical Knowledge

Goal Statement: Medical students are expected to master a foundation of clinical knowledge with integration of basic sciences and the translation of that knowledge to the clinical setting. Graduates from Trinity School of Medicine will be able to:

- Demonstrate knowledge of normal and abnormal structure and function of the human body on the macroscopic, microscopic, and molecular levels.
- Identify the pathology and pathophysiology of various diseases and correlate them with clinical signs and symptoms.
- Demonstrate knowledge of common or significant, acute and chronic clinical problems.
- Differentiate between normal and abnormal development and age-related changes across the life span.
- Demonstrate comprehension of clinical interventions and agents including pharmaceutical, surgical, genetic, complementary and alternative medicines, and other therapies.

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- Demonstrate knowledge and ability to interpret epidemiological and public health contributions to understanding health and disease.
- Demonstrate knowledge of preventive medicine and current guidelines for health promotion and disease screening.

Patient Care

Goal Statement: Medical students, as members of the healthcare team, are expected to provide patient and family centered care that is compassionate and effective for the promotion of health and the management of illness.

Graduates from Trinity School of Medicine will be able to:

- Treat patients using a patient and family centered care approach.
- Obtain a complete and accurate medical history that covers essential aspects, also addressing issues related to age, gender, and culture, use of complementary medicine, family dynamics and socioeconomic status.
- Perform both complete and symptom-focused physical examinations, including mental status examination.
- Perform or participate in routine technical procedures (Procedures determined by core clerkships).
- Construct a differential diagnosis for common clinical presentations.
- Identify and interpret the most useful clinical, laboratory, imaging, and pathologic testing for common clinical presentations.
- Construct appropriate and efficient therapeutic management and prevention strategies for patients with common conditions, both acute and chronic, including medical, psychiatric, and surgical conditions, and those requiring short- and long-term rehabilitation.

Practice-based Learning

Goal Statement: Medical students are expected to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their practice of medicine. Graduates from Trinity School of Medicine will be able to:

- Develop strategies for continuous individual improvement through monitoring performances, reflection, engaging in new learning, applying new learning, and monitoring impact of learning.
- Accept constructive criticism and modify behavior based on feedback.
- Develop clinical questions related to patients' problems and demonstrate skills to find evidence

that is relevant and valid information to answer clinical questions using medical information technology.

Communication Skills

Goal Statement: Medical students are expected to demonstrate skills that result in effective communication and collaboration with patients, families, and professional associates. Graduates from Trinity School of Medicine will be able to:

- Demonstrate the ability to establish a positive patient-doctor relationship based on mutual trust and respect for patients' privacy, dignity, individual integrity and culture.
- Communicate with others in a respectful, professional and non-judgmental manner and demonstrate effective listening skills (e.g., maintaining eye contact, body posture, verbal and non-verbal facilitation skills).
- Demonstrate the ability to give a clear, concise, and organized oral presentation and written documentation of a history and physical exam with basic elements of assessment and plan that addresses the psychosocial and biomedical needs of the patient for a focused or complete patient encounter.
- Conduct an interview with a limited English-speaking patient through appropriate use of an interpreter.
- Recognize barriers to effective communication and implement strategies to overcome these barriers (e.g., health literacy, vision/hearing impairment, disabled, pediatric, geriatric).
- Educate patients on preventive strategies and medical risks and benefits in medical decision-making.

Professionalism

Goal Statement: Medical students are expected to demonstrate professional behavior, commitment to ethical principles, commitment to lifelong learning and sensitivity to diverse patient populations. Graduates from Trinity School of Medicine will be able to:

- Demonstrate honesty, integrity, and ethical behavior in all interactions with patients and other health care professionals
- Describe the importance of protecting patient privacy and identifying personal health information, including when and when not to share information
- Demonstrate commitment to lifelong learning by attendance at all classes, labs, clerkships, electives and required school activities
- Identify the ethical hazard and respond appropriately in situations such as:

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- Acceptance of gifts or collaboration with industry when courted to prescribe/use their products, being asked to practice beyond legal limits or personal comfort (e.g., when asked to provide medical care to friends or relative; use of “doctor” title).
- Fulfill professional commitments in a timely and responsible manner.
- Maintain appropriate professional appearance and composure.
- Recognize and address personal limitations, attributes or behaviors that might limit one’s effectiveness as a physician and seek help when needed. This would include being able to describe personal responses to stress and employ appropriate stress reduction interventions as needed.
- Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, race, religion, disabilities and sexual orientation and investigate impact of those on clinical care and medical decisions.

Systems-based Practice

Goal Statement: Medical Students are expected to develop an awareness of available health care system resources and demonstrate an ability to use them appropriately to provide optimal quality patient care. Graduates from Trinity School of Medicine will be able to:

- Demonstrate the ability to work within a multidisciplinary patient care team, with an understanding of the physicians’ role as team leader and the importance of ancillary staff.
- Examine medical errors and quality problems using a health systems approach and describe available methods to minimize them.

Academic Program Delivery

All required courses, with the exception of 4th year electives, will have a corresponding online course component in the Canvas system. This Canvas course houses the syllabus, details of the course, and timeline for material delivery including exams. The course also houses the grade within the term so that the student can see current standing. Each student will receive an orientation to Canvas and detailed instructions on how to access course material during orientation.

Academic Standing

Medical students are expected to maintain a 2.50 or higher GPA. Students are in good academic standing if they meet the minimum GPA standards based on GPA hours. A student must be in good academic standing in order to graduate.

Students on academic probation, academic warning, or professionalism warning status are not considered in good academic standing.

Traditional Curriculum

Traditional curriculum for Terms 1-5.

Term	Course	Credits	
Term 1	ANAT 301	Anatomy I	3
	ANAT 309	Histology	2
	BCHE 307	Molecular Biology & Genetics*	7
	CLMD 401	Introduction to Clinical and Community Medicine I	3
	Total		15
Term 2	ANAT 302	Anatomy II*	3
	ANAT 308	Embryology	2
	PHYS 307	Medical Physiology*	6
	COBS 301	Epidemiology & Biostatistics	1
	CLMD 402	Introduction to Clinical and Community Medicine II	2
Total		14	
*Students must pass all Term 1 & 2 NBME exams prior to promotion to Term 3			
Term 3	NEUR 300	Neuroscience	3
	MICR 400	Microbiology & Immunology I	3
	PATH 400	Pathology I	6
	PHAR 400	Pharmacology I	3
	CLMD 413	Introduction to Clinical and Community Medicine III	2
Total		17	
Term 4	COBS 300	Behavioral Sciences	2
	MICR 401	Microbiology & Immunology II*	3
	PATH 401	Pathology II*	8
	PHAR 401	Pharmacology II*	3
	CLMD 404	Introduction to Clinical and Community Medicine IV	2
Total		18	
*Students must pass all Term 3 & 4 NBME exams prior to promotion to Term 5			
Term 5 (Clinical Transition Term)	CLMD 406	Integrated Systems Review	6.0
	CLMD 405	Introduction to Clinical and Community Medicine V	6.0
	Total		12.0
Total Credit Hours		76.0	

Student Progression

Curriculum in Terms 1-4

It is our intention to keep all students on a 4 year pace for graduation. However, we understand that some students have a more difficult time adjusting to the rigors of medical school curriculum than others. We monitor each student's test scores throughout each term to analyze if their ability to maintain the current learning pace is not in jeopardy. If the academic progress committee determines their grades and progression are in jeopardy, their curriculum will be decelerated until they can acclimate.

Sometimes this may require a student to drop a course or courses during a term and/or limit the next term's course structure until grades and ability to move forward at the optimum pace are achieved. This does not change the amount of tuition paid over the basic science terms as tuition is capped in aggregate for all 5 terms. However, if a student fails a course and has to repeat it, those credit hours will be in addition to the aggregate total. Deceleration will help students avoid unnecessary remedial course (repeat) costs and help preserve their GPA and class standing.

- If the Academic Progress Committee changes or decelerates a student's course curriculum, students must adhere to these changes.

Term 5 (Clinical Transition Term)

At the completion of all pre-clinical (Basic Science) coursework, including the successful completion of all NBME Subject Examinations, students will be promoted to the Clinical Transition Term (Term 5). During this term, students will complete their CLMD 405 Introduction to Clinical and Community Medicine V and CLMD 406 Integrated System Review. The Integrated System Review Course combines an introduction to clinical diagnosis and management and the understanding of basic sciences. The passing requirement for this course includes making the minimum passing score on the CBSE. Students who fail CLMD 406 will be required to repeat the course as CLMD 407 Integrated Systems Review remediation. Success in 407 is passing CBSE. Failure to pass CLMD 407 will require entrance into CLMD 408. Failure to pass CLMD 408 (as documented by failure of passing 5th attempt at CBSE) will result in a recommendation for dismissal.

Independent Study/Remediation

Passing all NBME subject examinations is a requirement for being promoted into following terms.

- Students who require remediation of NBME examinations taken in Terms 1 or 2 will be enrolled in a remediation term and placed in course IDIS 200 with additional study support. This requires students to be present on campus in St. Vincent and the Grenadines for that term. Students will be required to attend lectures in person in the subject in which they are remediating the NBME (e.g. Anatomy NBME, students are required to attend all Anatomy 1 and Anatomy 2 lectures during their study term). Following successful remediation of the exams, students will be promoted to Term 3 the following term. A total maximum of 3 attempts on each Term 1 & 2 NBME is allowed and must be taken within one remediation term. Failure to pass the required NBME examinations will result in dismissal.
- Students who require remediation of NBME examinations taken in Terms 3 or 4 will be enrolled in a remediation term and placed in course IDIS 300 with additional study support. This requires students to be present on campus in St. Vincent and the Grenadines for that term. Students will be required to attend lectures in person in the subject in which they are remediating the NBME (e.g. Pathology NBME, students are required to attend all Pathology 1 and Pathology 2 lectures during their study term.) Following successful remediation of the exams, students will be promoted to Term 5 the following term. A total maximum of 3 attempts on each Term 3 or 4 NBME is allowed and must be taken within one remediation term.
- Students preparing for the USMLE Step 1 will be enrolled in IDIS500. Students failing Step 1 will be enrolled in remedial terms IDIS501, or IDIS502. For Step 2 CK preparation, students will be enrolled in IDIS600. Students failing Step 2 will be enrolled in remedial courses IDIS601 or IDIS602. Students desiring additional exam preparation time may request a Leave of Absence only after the completion of 3 consecutive failures of Step 1 or Step 2. IDIS Prep leaves are only

granted after the completion of 3 Step attempts in the specific exam. (See Leave of Absence in the TMSU section of this document.)

IDIS courses will not count toward the credit required for graduation but will appear on the transcript.

Clinical Clerkships - Terms 6-10

A student must meet the following criteria to be cleared for advancement to clinical clerkships:

- Qualifying score on the NBME Comprehensive Basic Science Exam (CBSE), Pass USMLE Step 1.
- Completion of life support training as required by hospitals in which you attend clerkships, HIPAA certifications.
- 9 panel drug screen
- Criminal background screen
- Other documentation requirements as specified

In addition to the listed requirements, students must at all times maintain Financial Clearance with the Finance Office to be scheduled for clerkship rotations (see Financial Clearance). Tuition and fees during clinical clerkships will be billed on an academic term basis in Terms 6-10. Once a student has gained Financial Clearance for an academic term, the student is eligible to be scheduled for any rotations starting within that academic term. After Term 10, students will be billed the student administration fee (currently \$425) plus \$100 tuition for each successive academic term until graduation. Additionally, students must carry malpractice insurance through the academic term in which they complete their final elective rotation. Students may petition the finance office for a prorated credit of the malpractice insurance premium in the event their final elective rotation is completed within the first six weeks of an academic term.

Clinical clerkships (study for credit) cannot be executed under the VISA Waiver Program. Additional information may be found at VISA Waiver Program on the travel.state.gov website. Under current United States law, non-U.S. citizen students entering the U.S. for educational purposes (non-citizens) must secure a B-1/B-2 visa. (9 FAM 402.2-5(E)(3) (U) Clerkship) Non-U.S. citizens must consult the Visitor Visa web page of the United States Department of State (<https://travel.state.gov/content/visas/en/visit/visitor.html>). Questions regarding visa applications should be directed to the Office of Student Services.

Elective Clerkships Elective I (EI) & Elective II (EII)

All Elective I clerkship rotations are scheduled in affiliated hospitals, primarily in the state of Georgia. Students will be assigned to EI rotations over a 48-week EI rotation cycle, normally completed within 52 calendar weeks. The EI rotation curriculum is as follows:

FMED 500	Family Medicine	6 weeks
IMED 500	Internal Medicine	12 weeks
OBGY 500	Obstetrics & Gynecology	6 weeks
PEDS 500	Pediatrics	6 weeks
PSYC 500	Psychiatry	6 weeks
SURG 500	Surgery	12 weeks

Students are required to pass the NBME Subject (Shelf) Exam given at the end of each elective I clerkship. Shelf exam grading is based on the most recent normative data published by NBME. Please see each core rotation's (E1) Canvas page for specifics.

Additionally, Trinity sets higher scores to indicate High Pass and Honors. Those are reviewed annually and adjusted if indicated.

NBME Shelf Failure Policy

All medical students must take and pass NBME Shelf exams required for each clerkship. NBME failures are reported on MSPE per AAMC guidelines.

Any student who fails any clerkship exam on the first attempt will receive a grade of "incomplete" until they have passed the exam. Any student who fails a rotation but passes the NBME Shelf exam will receive an "F" and have to repeat the entire clerkship.

The following items relate to a failure on the first attempt of the NBME Shelf Exam:

- A repeat exam must be taken before elective II clerkships can begin. It may be taken as early as three weeks after failure but must be taken before electives begin.
- The student, Associate Dean of Clinical Sciences and Curriculum (ADCSC) and Associate Dean of Assessment and Testing (ADAT) will determine an appropriate date for the retake. The final decision for the retake exam rests with the Associate Deans. Clerkship coordinator will coordinate scheduling of the exam in consultation with the Associate Deans.
- Once the date of the retake exam has been finalized, any request by the student to reschedule the exam must be made, in writing, to the ADCSC no fewer than 14 calendar days before the scheduled retake. Approval of the request is at the discretion of the ADCSC.
- The following items relate to a failure on the second attempt of the same NBME Shelf Exam:
 - Any student who fails the retake exam will receive a grade of "Fail" for the clerkship and must repeat the clerkship.
 - The students must follow a prescribed plan of study during the repeat clerkship, designed in collaboration with the ADCSC.
 - The need for a student to repeat a clerkship may affect their graduation date.

The following items relate to a second separate NBME Shelf failure before the first has been remediated:

- If a second separate NBME Shelf is failed before an earlier shelf has been remediated, the student is removed from clinical rotations and is given 6 weeks to pass both exams.
- The student, ADCSC and ADAT and Testing will determine an appropriate date for the retakes. The final decision for the retake exams rests with the Associate Deans. Clerkship coordinator will coordinate scheduling of the exams in consultation with the Associate Deans.

-Once the date of the retake exam has been finalized, any request by the student to reschedule the exam must be made, in writing, to the ADCSC no fewer than 14 calendar days before the scheduled retake. Approval of the request is at the discretion of the ADCSC.

Any student who fails a specific NBME Shelf Exam on their third try (after repeating a clerkship due to two NBME Shelf Exam failures) will need to meet with the APC and be recommended for dismissal since they are failing to progress.

Students may not exceed the six-year maximum time allotment for the completion of the Doctor of Medicine (MD) degree. Tuition will be affected if repeat clerkships are required to pass clerkships or electives.

Elective Clerkships II

Upon successful completion of all elective I clerkships, students will be enrolled in IDIS 600 – Step 2 Prep Independent Study to allow the opportunity to prepare for USMLE Step 2 CK. During this time, students will also take the M4 OSCE exam which will allow for the assessment of Clinical Skills. Students successfully passing Step 2 CK may begin to complete the required 27 weeks of elective II rotations and schedule their OCSE exam. Managed elective II programs (tracks) are available in addition to self-directed rotations in areas of interest to students. Students are reimbursed for fees paid to elective II clerkship providers (application and instruction fees), subject to a cap of \$350 per rotation week.

Dress Code

Professional dress is required for all guest speakers and during ICCM testing. Appropriate attire includes white coat (short), closed-toe low-heel shoes, socks, collared long-sleeved shirts and conservative slacks. Slacks are appropriate for women. Skirts should be conservative in length.

In clinical settings, students must observe the physician dress standards at that site. The Clerkship Office can provide information on dress standards at affiliated hospitals and clinics.

For medical services where scrub suits are appropriate, these should be provided by the facility. Soiled or bloody scrubs are to be exchanged for clean scrubs at the earliest possible opportunity. Shoe covers, masks, and head covers should be removed when leaving units that require their use and clean scrubs should be worn when returning to the site. Scrub suits are NOT to be worn outside hospital or clinical sites.

Examination Policy

General Examination Policies

The following policies shall apply for all internal and standardized examinations for TMSU-SOM students:

- Review the Testing Policy in the TMSU section of this document.
- Place all personal belongings not required for the exam (hats, backpacks, bags, phones or other electrical devices) in the designated storage area.
- Hats and sunglasses are not permitted in the exam room.
- Water in a transparent bottle is allowed in the exam room. Food may not be brought into the exam room unless the Accommodations Committee has approved a specific accommodation in advance.
- Electronic devices not required for the exam, including cell phones, recording/filming devices, calculators and watches, will not be allowed in the exam room.
- Books, reference materials, and any kind of paper will not be allowed in the exam room.
- Commencement of the exam will not be delayed due to a hardware or software problem with a laptop nor will additional time be provided to complete an exam. A student experiencing a computer difficulty during the exam should notify a proctor for instructions.
- Students arriving after the exam start time will not be allowed into the venue without approval by the Associate Dean of Student Affairs or an authorized designee. Late arriving students will not be allowed extra time to complete the exam. Students arriving more than 30 minutes late will not be allowed to test. Students are closely monitored during exams and can be cited for irregular behavior, which may result in disciplinary measures up to and including dismissal.

Internal Examinations

The following specific policies shall apply for internal examinations:

- Seats will be pre-assigned and posted outside the exam area at least 30 minutes prior to the exam.
- Only registered laptops and laptop chargers will be permitted in the exam venue.
- Prior to arriving at the exam site, each student should ensure (i) the student's laptop is operating properly, (ii) the exam software application has been downloaded and is operating properly, (iii) the exam has been downloaded, and (iv) the student is familiar with use of the exam software. Temporary loaner laptops are available in advance of the exam if a

student is experiencing technical issues with a personal laptop. Any attempt to disable or tamper with the exam software security features will be considered a violation of the student code of conduct.

- Arrive at the exam site at least 30 minutes prior to the exam start time and open the exam application to the password entry screen. The password will be supplied at the exam start time.
- One blank sheet of paper will be assigned to each student. The sheet will be signed and turned in at the completion of the exam. Failure to turn in the sheet may result in loss of points up to and including a zero for the examination.

Examination Review

After quizzes and internal examinations, the course director may conduct a review of the material on the exam. These reviews are at the discretion of the course director and may include a review of exam questions, concepts, or both. Course directors will schedule reviews during regularly scheduled classes. Students unable to attend a review may request an excused absence from the Associate Dean for Admissions and Student Affairs to be allowed a make-up review with the course director. Review opportunities are only available for up to one week after an exam.

External Examinations - NBME Subject Exams

The following specific policies shall apply for standardized examinations:

- A University ID and government issued ID as required for admission to the exam venue (Prometric Centers).
- For CBSE students only, snacks and/or beverages will be allowed in the designated storage area for personal belongings.
- Students should arrive at least 30 minutes prior to the exam start time to allow adequate time to prepare for the exam.
- Students with an excused absence from a scheduled exam will be allowed to register for an alternate exam time.
- Students should be respectful of other students and should remain silent during the exam and enter and exit the exam venue as quietly as possible.
- Students may not use the washroom after entering the examination room until completion of the exam.

TMSU-SOM Course Grading

All courses in Terms 1-5 are graded according to the TMSU Preclinical Grading Policy. Additional considerations are provided below.

Common Rules of Grading

Courses may have tests, quizzes, and other assignments of varying weights toward a final grade. In such cases, final grades are calculated with weight means.

Please see syllabi for a more extensive explanation of the grading policy.

PRECLINICAL (TERMS 1-4) NBME REQUIREMENTS

Students must complete all NBME subject exams from Term 1 and 2 prior to enrolling in courses from Term 3. Students must complete all NBME subject exams from Term 3 and 4 prior to beginning Term 5. No Term 5 courses may be taken prior to completion of all basic science (preclinical) courses.

NBME discipline exams in Terms 1-4 are evaluated based upon data provided by NBME as a percentage correct for each student. Passing scores vary for disciplines based upon percentile performances. Within Terms 1-4, NBME discipline exams will be weighted 25% of the final grade.

Honors grades

Grade A with Honors, A(h), is awarded for exceptional performance exceeding the criteria for an "A" grade in academic distinction. Criteria are published in the course syllabi as approved by the APC and Curriculum Committee. The grade A(h) cannot be obtained for repeat courses or through an academic appeals process.

Dean's List

During undergraduate, graduate, and Terms 1-5 in the medical program, there are two categories of Dean's List awarded each term based on a minimum and the grade point average, excluding all Pass/Fail (P/F) grades. All incomplete (IP) grades must be completed before the honor is bestowed.

- Dean's List with Distinction – a minimum of 12 credit hours and a 4.00 grade point average.
- Dean's List – a minimum of 12 credit hours and a 3.5 or greater.

In clinical clerkships, there are two categories of Dean's List awarded at the completion of all elective I clerkships.

- Dean's List with Distinction – earning Honors in all clerkships
- Dean's List – earning Honors and or High Pass in all clerkships.

Approval of grades

All course grades are compiled by the course director and presented to the Academic Progress Committee (APC) for approval. Following approval, they are published to the students and entered onto the student's transcript.

A student has the right to appeal a course grade to the APC on an individual basis within two weeks after the finalization of grades. After this two-week period, grades may not be appealed. All courses must be successfully passed or remediated to progress in the curriculum. Final grades, but not interim grades, can be appealed as prescribed in the TSOM Academic Appeals Policy.

Failed Course Remediation

A student who fails a course during a term will be allowed to take a second (new) comprehensive final examination for this course during the first week of the next term. If the student fails the remediation exam(s), the course(s) is failed and the student must repeat the course in the next term. In courses with an NBME subject exam, except for Biochemistry, the student must pass the course and the NBME exam.

Student Situation with only one failed course	Action
Course failed, NBME failed	Retake internal remediation exam and retake NBME
Course failed, NBME passed	Retake internal remediation exam with an NBME format
Course passed, NBME failed	Retake NBME

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Molecular Biology and Genetics (BCHE 307) requires the course and the NBME exam be passed. The following remediation actions apply for this course.

Student Situation in Biochemistry

Action

Course failed, NBME failed	Repeat course. This applies even if it is the only failed course.
Course failed, NBME passed	Retake internal remediation exam with an NBME format. This option is available if this is the only course failed. Otherwise, repeat course.
Course passed, NBME failed	Retake NBME; pass prior to taking CBSE

Students must successfully pass the exam prior to being promoted to Term 3.

Once a student receives a passing grade after repeating a course, the "F" is expunged from grade point average calculation and replaced with the passing grade.

Students are allowed a maximum of 3 attempts on any NBME subject examination.

If a student passes both the internal and external (NBME) portion of a class, the student passes the class.

Incomplete Grade

An incomplete grade ("I") signifies that not all required coursework was completed during the term of enrollment. The "I" grade is not calculated into the term GPA or the cumulative GPA at the time it is awarded. All required coursework must be completed prior to the established deadline for completing the missing work. If course requirements are not satisfied by the deadline, an "I" grade will be changed to an "F."

Academic Appeal

TMSU students have the right of academic appeal against the following decisions pertaining to their individual academic career:

1. Individual course grades (issued by the course directors or clinical faculty).
2. Decisions of the Academic Progress Committee (issued by the Chair, APC) regarding graduation, academic promotion, academic status, deceleration.

3. Academic Progress Committee findings and determinations on non-cognitive issues.
4. Dismissal from TMSU, with exceptions to appeal availability noted below.
5. Academic decisions as described above, issued by the Associate Dean of Student Affairs, and the Senior Associate Dean of Clinical Clerkships.
6. TMSU-SBS and TMSU-SOM administrative decisions may have exceptions as noted below.

Exclusions from Academic Appeal

1. If the Dean rules not in favor of an appeal, the appellate must appeal to the Appeal's Board within 10 days. Appeal's Board decisions are final.
2. Established TMSU policies cannot be appealed in general.
Financial issues and decisions cannot be appealed.

Any appeal must be filed in writing with the TMSU-SBS or TMSU-SOM Dean within two weeks (exclusion period) following notification of a decision affecting the student and/or issuance of a grade, and/or other event. This appeal must follow the required appeal format provided within the notification. After expiration of the exclusion period no appeals may be filed. The appeal must provide compelling and extenuating circumstances of why the academic standard was not met. It should be accompanied by any evidence substantiating the appeal and a plan that, if the appeal is granted, the appellant will be successful in future academic endeavors. The Dean will keep any sensitive personal or medical information contained in appeals letters confidential.

The right to appeal a final institutional decision is the purview of CAAM-HP.

CAAM-HP at CAAM-HP Secretariat, Suite #7
Pinnacle Point, 53 Lady Musgrave Road
Kingston 10, Jamaica
875-927-4765.

The purpose of publishing the commission's contact information is to enable interested parties 1) to learn about the accreditation status, 2) to file a third-party comment at the time of the institution's review, or 3) to file a complaint against the institution for alleged non-compliance with a standard or requirement.

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Withdrawal

A course withdrawal occurs when students are given permission to discontinue participation in one or more courses. Approval for withdrawal from a course must be granted by the Course Director and the Associate Dean of Student Affairs. Withdrawal will not affect students' grade point averages (GPA) but will affect students' academic progress.

Any student who withdraws from any course after the first exam will receive a "W" grade in any course where *either* the final exam has not yet been completed or the term is beyond the first business day of the 9th week, whichever occurs first. If the student has completed the final exam, the course may not be dropped and the student's grade will stand on the academic record. The student will be responsible for all tuition and fees for the semester.

A student may withdraw from a course only one time without extenuating circumstances. Extenuating circumstances are those of a documented health issue or documented significant family issue. These must be approved by the Associate Dean for Student Affairs. Any student discontinuing a class previously withdrawn from will receive a grade of "F" in the course.

Any student taking a leave of absence which starts after the first business day of the 9th week will receive a grade of "W" for all courses registered for that term.

Grading System for Elective I Clerkships

Third year Elective I clerkships are graded Pass, High Pass, and Honors.

Students earn one credit hour per rotation week completed. During each 6 and 12-week clerkship, students will earn 6 and 12 credits, respectively.

Clerkship grades are composed of the following: NBME Shelf exam (scaled score), PBL participation, Clinical rotation, Professionalism, Case logs and completion of faculty and rotation evaluations

Grading Scale for NBME Subject Exams

Students scoring High Pass and Honors on an NBME subject exam will earn clerkship grades of High Pass and Honors if all other required components of the clerkship are completed on time and no deficiencies are noted on the preceptor

evaluation. High Pass and Honors are only available for students who take the exam on the day scheduled.

	Fail	Pass	High Pass	Honors
Family Medicine	≤58	59	71	80
Internal Medicine	≤55	56	70	81
Obstetrics & Gynecology	≤60	61	74	83
Pediatrics	≤60	61	75	84
Psychiatry	≤68	69	81	88
Surgery	≤55	56	69	80

For the NBME Shelf failure policy, please see page 29 of this hand book.

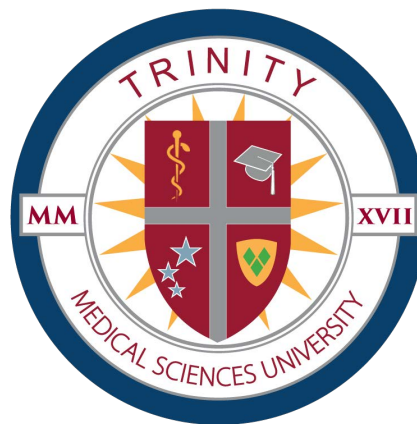
No student may take Step 2 CK until all Elective I clerkships are complete, including the submission of any and all assignments, evaluations and passing shelf exam scores.

Transcript Grade		Grade Point Value
H	Honors (EI)	4.0
HP	High Pass (EI)	3.5
PA	Pass (I)	3.0
SP	Pass (elective II)	0
F	Failure	0
I	Incomplete	0

Students are not allowed schedule breaks between Elective I clerkships to study for shelf exams.

Grading of Elective II Clerkships

Elective II clerkships are graded as Pass/Fail. However, should a Shelf exam be available in the Elective Specialty (examples: Neurology, Emergency Medicine), students may elect to take the shelf exam to earn HP or Honors. If a student fails a shelf exam in an elective specialty, the failing score will not affect the recorded grade for the elective.



United States Medical Licensing Examination (USMLE) Preparation and Testing

All Trinity School of Medicine students are required to pass the USMLE Step 1 and Step 2 CK exams to obtain residencies or licensure in US and Canada. For those students,

- **USMLE Step 1** must be passed before the student may advance to clinical rotations.
- **USMLE Step 2 CK** must be passed before advancing to post elective I rotations.

Students must be certified by TMSU-SOM to register for the USMLE exams after passing CBSE.

A student may be restricted in the number of exam attempts based upon demonstrated progress. Trinity follows the USMLE and ECFMG policies with regard to timing and attempt limits.

Students are required to submit electronic copies of the score report to the Office of the Registrar and the Clerkship Office immediately upon receipt. All score reports, whether passing or failing, must be submitted.

Trinity Clinical Skills Assessment – M4 OSCE

All Trinity School of Medicine students are required to pass the Trinity Clinical Skills Assessment, also known as the M4 OSCE. Upon completion of Elective I rotations, students are eligible to register for the M4 OSCE. This assessment serves in place of USMLE Step 2 CS and satisfies the graduation requirements for Trinity and the certification requirements for ECFMG.

Qualities of Graduates

Core Competencies

Students are expected to meet the expectations of each core competency: medical knowledge, patient care, communication skills, practiced based learning, and systems-based learning. In addition to those areas, students are expected to attain an acceptable “level of entrustment” for the attributes. Elective I and elective II clinical evaluations will measure these attributes.

Entrustable Professional Attributes

In 2012, the AAMC published a list of Entrustable Professional Activities (EPAs) that a graduate should demonstrate when entering a residency program. Concurrent to these pilots, schools recognized the need for students to demonstrate certain levels of entrustment between pre-clinical and clinical training to validate the clinical skills training in early experiences. TMSU-SOM defined a subset of behaviors for students entering clerkships. Both the preclinical and clinical EPAs are assessed throughout the curriculum.

Preclinical EPAs - The minimum expectation is that students will be able to do the following at the beginning of clerkship training:

- Gather information from a medically stable patient with a common chief complaint.
- Integrate information gathered about a patient to construct a differential diagnosis and a preliminary plan.
- Communicate information relevant to patient care to other members of the health care team.
- Communicate information about patient care (diagnosis and care) with patient in no physical or emotional distress.
- Provide the health care team with resources to improve individual patient care or collective patient care.

During clerkship training, students will develop additional Entrustable Professional Activities in order to be ready for residency training:

- Gather a history and perform a physical exam
- Prioritize a differential diagnosis following a clinical encounter
- Recommend and interpret common diagnostic and screening tests
- Enter and discuss orders and prescriptions
- Document a clinical encounter in the patient record
- Provide an oral presentation of a clinical encounter
- Form clinical questions and retrieve evidence to advance patient care
- Give or receive a patient handover to transition care responsibility
- Collaborate as a member of an inter-professional team
- Recognize a patient requiring urgent or emergent care and initiate evaluation and management
- Obtain informed consent for tests and/or procedures
- Perform general procedures of a physician
- Identify systems failures and contribute to a culture of safety and improvement

Graduation

The degree requirements for the Doctor of Medicine degree from TMSU-SOM are set by the faculty with the concurrence of the Dean. The Registrar certifies for each graduating student that all degree requirements have been met. The faculty meet to review and approve each candidate for graduation. All graduation requirements are listed in the Student Handbook.

Students should periodically review progress toward degree completion with the Office of the Registrar. Graduation timing is critical for the annual residency match cycle and failure to meet graduation requirement deadlines could impact readiness for residency start dates.

Honors Designation

A degree will be granted with highest honors (*distinction*) if a student's grade point average is 3.5 or greater and the student has earned all honors and high pass grades in the required clerkships. All students earning a grade point average of at least 3.5 will be granted honors (*honors*) at graduation. These designations will be recognized with honors cords. Students meeting requirements for distinction will receive both honors cords.

Official Date of Graduation

The official date of graduation for each student will be based on the completion of all program requirements:

- Satisfactory completion of all courses and clerkships, including electives
- Satisfactory completion of required licensure exams
- Receipt of official licensure transcripts from ECFMG (request must be made by student)
- Fulfillment of all financial obligations to the school
- Review and approval by the faculty and Dean

The date of graduation will be assigned following approval by the faculty and will typically be the last business day of the month in which all graduation requirements are met. Diplomas will be submitted to ECFMG for authentication once the above are completed. Every effort will be made to accommodate students beginning residencies in July.

A student is not considered a graduate until all required departments have successfully cleared the student.

Career Services

Students are encouraged to discuss career options with the Sr. Associate Dean for Clinical Clerkships and the Associate Dean. Their guidance will be instrumental in gaining a residency placement post-graduation. This guidance is noted in the Trinity Clinical Handbook with appropriate links to set up meeting times to address questions and receive guidance.

Course Descriptions

ANAT 301 Anatomy I

This course provides the students with lectures and comprehensive overview of the gross anatomy of the osteomioarticular system and peripheral nervous system, with consideration of relationships of various anatomical structures. The interpretation of normal medical imaging studies is also highlighted. *3 credits*

ANAT 302 Anatomy II

This course provides the students with lectures and comprehensive overview of the gross anatomy of the components of the respiratory, cardiovascular, digestive and the urogenital systems as well as the organs of vision, hearing and balance. Prerequisite – Anatomy I. *3 credits*

ANAT 308 Embryology

This course provides the students with lectures and comprehensive overview of human embryology, including features and major events of the development of specific organs and systems of humans in embryonic and fetal periods, the current understanding of some of the molecular events that guide development of the embryo. *2 credits*

ANAT 309 Histology

This course provides the students with a foundation for understanding the microscopic organization of the human tissues. The course commences with the basic concepts of tissue preparation and microscopy followed by the study of the cardinal features of the cell and its internal structures as revealed by light and electron microscopy. The normal histological organization of the four basic tissues and organs is presented with emphasis on the relation of structure to function, as well as the structural changes underlying selected diseases. The normal microscopic structure of the components of the major organ systems is studied in detail. *2 credits*

ANAT 400 Introduction to Teaching Anatomy

Students are provided an opportunity to enhance their teaching skills to students in Anatomy 1 or 2. This elective is also appropriate for students interested in teaching the anatomy portion of Neuroscience. *1 credit*

BCHE 307 Molecular Biology and Genetics

This course provides students with a basic understanding of the chemical components of the human body and their functions, the molecular architecture of eukaryotic cells and organelles, the principles of bioenergetics and enzyme catalysis, the chemical nature of biological macromolecules, their three-dimensional conformation, the principles of molecular recognition, and the major metabolic pathways in health and their most frequent disorders. *7 credits*

BIOS 331 Biostatistics

This course provides students with concepts of statistics used in biomedical literature and provides the students opportunities to demonstrate the ability to interpret studies correctly using information presented in the course. *1 credit*

COBS 301 Epidemiology & Biostatistics

This course introduces the students to the practice of statistics such as displaying distributions with graphs, describing distributions with numbers, looking at data relationships, scatter plots, correlation, least-squares and multiple regression, relations in categorical data, the question of causation, sampling designs, statistical inference, estimating with confidence, tests of significance, power and inference, comparing two means, comparing several means, inference from two-way-tables, and nonparametric tests. The course also introduces the students to the application of statistics to epidemiology in the matter of rates, incidence and prevalence, mortality and fatality, measures of risk such as the odds ratio, sensitivity and specificity, and predictive values. *1 credit*

CLMD 401 Introduction to Clinical and Community Medicine I

This course introduces students to the unique patient-physician relationship and the skills that are needed for effective clinical interactions. Students learn the skills of history taking and practice the art of communication during patient encounters. Practical opportunities to interview real patients under the supervision of clinical faculty are provided during hospital and clinic visits. An introduction to the field of public health allows students to explore the relationship between public health and clinical medicine. Medical ethics, cultural competence and patient centered care are discussed and standards of care in privacy and safety are presented leading to certification in HIPAA and OSHA-BBP standards. *3 credits*

CLMD 402 Introduction to Clinical and Community Medicine II

This course focuses on the information gathering professional activity and builds on previous skills. It introduces physical examination in the skills lab using a regional/organ system approach. Students receive practical experience with patient interviews and physical examination in the clinic setting. Lectures, videos, clinical demonstrations and practice sessions in the skills lab and at various clinical sites help to meet these objectives. Community medicine discussions include access to care in addition to national and global health systems and challenges. *2 credits*

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CLMD 413 Introduction to Clinical and Community Medicine III

This course continues to provide students with foundational knowledge and skills of patient care. It also emphasizes the professional and personal attributes required in competent and caring physicians. Professional activities are developed through learning and skill-building activities including hospital and clinic rotations, small group activities, interactive presentations and lectures, hospital clinical experiences, and other active learning opportunities to enhance clinical development of students' professional activities. *2 credits*

CLMD 404 Introduction to Clinical and Community Medicine IV

This course further exposes students to the art and skills of patient care. It further strengthens the professional and personal attributes required in a competent and caring physician. Medical professionalism and ethics are emphasized. Students are provided a balanced mix of learning and skill-building opportunities comprised of hospital and clinic rotations, small group activities, and interactive presentations and lectures. The practical learning experience this course provides helps students refine and receive feedback on their demonstration of professional skills. *2 credits*

CLMD 405 Introduction to Clinical and Community Medicine V

This course continues integrating clinical medicine with the basic sciences taught in Terms 1-4. Students participate in case presentations, clinical experiences, and active learning activities to enhance clinical skills demonstration throughout the term in preparation for the objective structured clinical examination (OSCE) with virtual standardized patients. *6 credits*

CLMD 406 Integrated Systems Review 1

This course is designed to provide students with a review of systems through case presentations and clinical reviews. The purpose of this course is to prepare the student for the comprehensive basic science examination at the end of the term and the USMLE Step 1 exam. With an emphasis on understanding basic sciences from the perspective of a clinician, it provides active learning activities to reinforce importance of chief complaints leading to the development of differential diagnoses. Knowledge is formatively evaluated day 3 of 405/406 with a Kaplan Diagnostic test. After 7 weeks of formal teaching and formative assessment, CBSSA will be taken as an official formative assessment in preparation for summative assessment in CBSE during week 9. If CBSE is passed, student will proceed to USMLE 1. If first CBSE is not passed, student will proceed during week 14 to 2nd CBSE attempt. During weeks 15 and 16, clinical skills training will take place. *6 credits*

CLMD 407 Integrated Systems Review 2

This course is designed as a remediation course for students who need additional guidance on the integration of clinical and basic sciences.

Students attend didactics and perform the same exams as the CLMD 406 students in an effort to insure maximum understanding of clinical presentation. This includes two attempts at CBSE (week 3 and either week 11 or 15). *6 credits*

CLMD 408 Integrated Systems Review 3

This course is designed to provide a summative review integrating clinical presentation into the understanding of basic science. Students attend refined course lectures and perform the same exams as the CLMD 406 and 407 students in an effort to ensure maximum understanding of clinical presentation. Alternative review programs may be considered or recommended based on CLMD 407 results. There is one CBSE attempt during week 15. *6 credits*

COBS 300 Behavioral Science

This course introduces the biopsychosocial model of medicine and its application to the life-cycle with emphasis on the psychological, social and cultural determinants of health. Specific topics address the comprehension and assessment of brain function as it relates to personality, behavior, and cognition, cultural effects on doctor patient relationship and recommendation adherence. The basic tools needed for decision making in relation to legal and ethical issues are also presented. An NBME test will be taken at end of term *2 credits*

IDIS 200 NBME Remediation 1

Prerequisite: Failing score on the National Board of Medical Examiners (NBME) Biochemistry, Anatomy, and/or Medical Physiology examination(s). This course is designed to provide students with an opportunity for remediation of failed NBME examinations which occurred in Terms 1 and 2. Students will be required to attend lectures in the subject in which they are remediating the NBME (e.g. Anatomy NBME, students are required to attend all Anatomy 1 and Anatomy 2 lectures during their study term). All remediation requires the student to be in person on the SVG campus.

IDIS 300 NBME Remediation 2

Prerequisite: Failing score on the National Board of Medical Examiners (NBME) Microbiology, Pathology, and/or Pharmacology examination(s). This course is designed to provide students with an opportunity for remediation of failed NBME examinations which occurred in Term 4. Students will be required to attend lectures in the subject in which they are remediating the NBME (e.g. Pathology NBME, students are required to attend all Pathology 1 and Pathology 2 lectures during their study term). All remediation requires the student to be in person on the SVG campus.

IDIS 305 Introduction to Medical Specialties

This introduces students to a broad selection of medical career specialties. Developed by the American Association of Medical Colleges, this interactive program provides information on selecting a medical specialty through an evaluation worksheet to assist with guiding the student in

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considerations for a medical specialty early in medical school. *1 credit*

IDIS 500 Step 1 Preparation Independent Study 1

This course is designed to provide students with an opportunity for independent study in preparation for USMLE Step 1. Review materials and study support are provided. Student is expected to register with the USMLE and Prometric Center and take their first attempt of Step 1 at the beginning of this course. The course may be taken for up to 15 weeks. Once Step 1 is passed, students may progress into Elective I clerkships as the next available starting date. *6 credits*

IDIS 501 Step 1 Preparation Independent Study 2

This course is designed to provide students with an additional opportunity for independent study in preparation for Step 1 after an initial failure. Students are to be in person and attend (audit) CLMD 406. This professionally produced review is important to help students achieve a pass on Step 1

exam. Currently, there are three weeks prior to the start of CLMD 406 and 5 weeks post for focused independent study time. Student is expected to sign up for and take their second attempt of Step 1 during this term. The course may be taken for up to 15 weeks. *6 credits*

IDIS 502 Step 1 Preparation Independent Study 3

This course is designed to provide students with a final opportunity for independent study in preparation for Step 1 after a second/third failure. Student is expected to pursue other independent review/tutor options as approved and discussed with one of the Deans to facilitate and improve their ability to pass Step 1. Student is expected to sign up for and take their third attempt of Step 1 during this term. The course may be taken for up to 15 weeks. *6 credits*

IDIA 503 Step 1 Preparation Independent Study 4

Students who have not passed their Step 1 exam by the end of their third course will be registered for IDIS 503 until such time as they have either passed the Step 1 exam or exhausted their allowable attempts by USMLE rules.

MICR 400 Microbiology I

This course has three sections. The first section is devoted to understanding the basic concepts of immunology and dysfunctional aspects of the immune system. The second section deals with basic bacteriology, virology and mycology which include: classification, structure, growth and replication; mechanisms of gene transfer; mode of action of antimicrobial agents and

microbial resistance, pathogenesis; sterilization and disinfection; and laboratory diagnostic methods.

The third section deals with the description of the major human parasites; emphasis is given on the life cycle, epidemiology, clinical diseases, diagnosis and prevention.

3 Credits

MICR 401 Microbiology II

Microbiology II is an organ/system approach to infectious diseases. The course begins with a brief description of the major signs and symptoms of infectious diseases that affect a particular organ/ system. For each etiologic agent, basic characteristics of the pathogen, its habit and means of transmission, virulence attributes, clinical manifestations, diagnostic methods, vaccine and aspects of the immune response to the pathogen and an indication of accepted antimicrobial or related treatment are discussed. Prerequisite - Microbiology I. 3 credits

NEUR 300 Neuroscience

Neuroscience provides the basis for the understanding of structure and function of the human nervous system and disorders affecting it. The course is kept relevant by including discussions of appropriate clinical cases and scenarios. Students will also have the opportunity to extend their understanding of some areas and to develop skills in self-directed learning. 3 credits

PATH 400 Pathology I

Pathology I introduces students to an understanding of the alterations in cells and tissues in response to harmful stimuli. Acquired skills of general pathology including inflammation, ischemia, infarction and necrosis will be applied to specific organ systems. 6 credits

PATH 401 Pathology II

The course of organ system pathology is designed to help students understand the alterations in specialized organ systems and tissues that are responsible for the disorders that involve these organs. The skills of general pathology acquired in Pathology I will be applied to specific organ systems. Thus, systemic pathology is a continuation of general pathology with special emphasis on organ systems. Prerequisite – Pathology I. 8 credits

PHAR 400 Pharmacology I

The basic principles of pharmacology will be taught in this first semester course. There will be three blocks of concentration: basic pharmacology; autonomic nervous system, renal, cardiovascular, blood, gastrointestinal and respiratory pharmacology; and pain and inflammation pharmacology. 3 credits

PHAR 401 Pharmacology II

The basic principles of pharmacology will be continued in this second semester course. There will be three topics of concentration: 1) chemotherapy of infection and cancer, 2) pain and central nervous system pharmacology, and 3) endocrine pharmacology. The course will culminate with a comprehensive exam over both pharmacology courses. Prerequisite – Pharmacology I.
3 credits

PHYS 307 Medical Physiology

Medical Physiology introduces the student to the basics of normal human physiology or the study of function, activities, and processes of the human body. The course provides an in-depth introduction to a systems/organ system study of medically pertinent physiology. Teaching covers general and cell physiology, muscular, endocrine, reproductive, blood systems, cardiovascular, respiratory, renal and GI physiology. As the student is introduced to normal physiology, concepts of pathophysiology are also presented. *6 credits*

School of Medicine

Clinical Clerkships

Students are eligible to enter clinical clerkships after passing the required NBME and USMLE exams. Students are required to take 48 weeks of Elective I Clinical Clerkships. The elective I clerkships in medicine, surgery, pediatrics, family medicine, obstetrics and gynecology, and psychiatry are the basic areas of medical practice about which all physicians need to be knowledgeable. They are included in the curriculum of every medical school. Participation in these clerkships also provides students with an understanding of the most important specialties in medicine.

FMED 500 Family Medicine

In this clerkship, students are introduced to the principles and practice of family medicine. It is an opportunity to begin development of the knowledge, skills and attitudes required to approach a problem in the primary care setting. Students will observe how family physicians provide for ongoing medical needs of their patients within the context of the family and community setting and participate in the care of patients. *6 credits*

IMED 500 Internal Medicine

In this clerkship, students are introduced to the principles of caring for the medical patient. Students will begin to understand the general process of the application of medical therapy to patients in a wide variety of settings. The student participates as a member of the medical team and observes the role of the internist as a member of the multidisciplinary team providing patient care. *12 credits*

OBGY 500 Obstetrics and Gynecology

During this clerkship, students are introduced to the principles of caring for the OBGYN patient and participate in the various stages of evaluation and treatment of patients. Students will begin to understand the general process of the application of OBGYN specific therapies to patients in a wide variety of settings and participate as a member of a multidisciplinary team for patient care. *6 credits*

PEDS 500 Pediatrics

In this clerkship, students acquire knowledge about the process of growth and development and about common diseases and conditions of childhood. Students work with children and families together to develop an understanding of the importance of preventive medicine and how social and environmental factors affect young people. *6 credits*

PSYC 500 Psychiatry

In this clerkship, students learn through clinical involvement by working directly with patients and being part of the treatment team. Students develop professional rapport with patients, understand the presentation of psychiatric

illness, assess patient histories and mental status and develop bio-psychosocial assessments and treatment plans. *6 credits*

SURG 500 Surgery

In this clerkship, students are introduced to the principles of caring for the surgical patient. Students participate in the care of patients in the various stages of evaluation and treatment by surgeons. The student will begin to understand the general process of the application of surgical therapy to patients in a wide variety of settings as a member of the multidisciplinary team. *12 credits*

Elective II Clerkships

After the completion of elective I clerkships and passing Step 2 CK, an additional 27 weeks are spent in elective II clerkships. The Senior Associate Dean of Clinical Clerkships will assist students in developing an Elective Plan which improves the student's chances for a residency in a specialty of their choice.

ANES 600 Anesthesiology

The goal of this elective clerkship is to provide the students with an understanding of the basic management of the perioperative patient and the concurrent medical conditions in the intraoperative period. Students will become familiar with commonly used anesthetic agents and techniques and the risks and complications associated with each. The students will become familiar with principles and skills involved in airway management, intravenous line insertion, and the uses of invasive and non-invasive monitoring. *4 credits*

ANES 601 Pain Management

The purpose of this elective is to prepare students to develop rational drug therapy plans for patients with pain and other symptoms in patients with and without advanced illness, including those near end-of-life, as well as develop plans for monitoring pharmacologic and interventional therapies in these patients. *4 credits*.

EMED 600 Emergency Medicine

This elective clerkship provides the students with clinical exposure, observation and training to further their understanding of emergency medicine. Students focus on the care, treatment and diagnosis of a variety of acute and subacute problems in the adult emergency medicine patient. Students will learn the basics of how to stabilize and correctly triage critically ill patients to prepare for more advanced study of the discipline. *2-4 credits*. (Note: students may take the NBME Emergency Medicine Shelf Exam to earn Honors or High Satisfactory)

School of Medicine

FMED 600 General Family Medicine

This elective clerkship provides students with clinical exposure, observation and training to further their understanding of family medicine. Students experience a wide variety of clinical experiences to better understand how context influences the diagnostic process and management decisions needed to address complexities, including patients with multiple concerns, various psychosocial issues, and different, sometimes conflicting behaviors that influence their health and health care. *2-4 credits.*

FMED 601 Rural Family Medicine

The elective is designed for students to train with physicians in rural and underserved areas geographically separate from a clinical campus. The focus is on general practice and provides a better understanding of what medical practice means to small communities. *2-4 credits*

GLMD 600 Global Medicine

This elective clerkship provides students an opportunity to participate in medical missions outside of the United States during clinical training. Specific goals and learning objectives are determined by the supervising preceptor leading the trip and a formalized plan must be submitted to the Senior Associate Dean for Clinical Clerkships in advance for consideration and approval. *1-4 credits*

IDIS 600 Step 2 CK Preparation Independent Study 1

This course is designed to provide students with an opportunity for independent study in preparation for USMLE Step 2 CK. Review materials and study support are provided. Student is expected to sign up for and take their first attempt of Step 2 CK during this term. The course may be taken for up to 15 weeks. *6 credits*

IDIS 601 Step 2 CK Preparation Independent Study 2

This course is designed to provide students with an additional opportunity for independent study in preparation for Step 2 CK after an initial failure. Review materials and study support are provided. Student is expected to sign up for and take their second attempt of Step 2 CK during this term. The course may be taken for up to 15 weeks. *6 credits*

IDIS 602 & IDIS 603

Step 2 CK Preparation Independent Study 3 & 4

IDIS 602 is designed to provide students that require another opportunity for independent study in preparation for Step 2 CK after a second failure. Review materials and study support are provided. Student is expected to sign up for and take their third attempt of Step 2 CK during this term. The course may be taken for up to 15 weeks. *6 credits*

IDIS 603 is for students that need an additional term(s) to either pass Step 2 CK or exhaust available attempts allowed by the USMLE. 15 weeks. 6 Credits

IMED 600 General Internal Medicine

This elective provides students with a continuation of training from the third year and allows more active participation in care and management of patients and engagement in greater responsibility of patient care. *4 credits.*

IMED 601 Cardiology

This elective clerkship provides the students with clinical exposure, observation and training to further their understanding of cardiology. Students focus on the basic care, treatment and diagnosis of common cardiovascular illnesses in the adult patient to prepare for more advanced study of the discipline. Training emphasizes physician awareness, assessment, treatment, and acknowledgement of common cardiovascular conditions. *2-4 credits*

IMED 602 Dermatology

This elective clerkship will introduce the students to clinical dermatology and the relationship of skin disease/changes to other medical conditions. *2-4 credits*

IMED 603 Gastroenterology

In this elective clerkship, the student will learn the clinical approach to gastrointestinal and hepatobiliary diseases. Focus will be on solving clinical problems, differential diagnoses, pathophysiology, and management of patients. *2-4 credits*

IMED 604 Hematology/Oncology

This elective is designed to provide students with a thorough exposure to hematology, emphasizing basic science and clinical aspects pertinent to understanding normal function, pathophysiological derangements resulting in disease and appropriate diagnostic treatment protocols utilized in addressing diseased states. *2-4 credits.*

IMED 605 Critical Care Medicine

The purpose of this elective is to expose the student to the management of critically ill patients. The student will review relevant pathophysiology of presenting problems and therapies with an emphasis on diagnosis and management of the critically ill patient. *2-4 credits*

School of Medicine

IMED 606 Hospitalist Medicine

The purpose of this elective is to expose the students to being responsible for all aspects of inpatient care. Students will work one-on-one with a resident or attending hospitalist physician. *2-4 credits*

IMED 607 Nephrology

This elective provides students with a broad overview of nephrology emphasizing the clinical approach to patients. Particular attention is given to differential diagnoses, appropriate use of diagnostic tests, interpretation of laboratory data, the proper use of medications in the patient with renal impairment and renal replacement therapies. *2-4 credits*

IMED 608 Neurology

This elective will familiarize the student with the clinical presentations of common neurological disorders, develop appropriate differential diagnoses of common disorders, interpret laboratory results and propose treatment and management plans for patients. Among the disorders students may experience are acute mental status changes, stroke, seizure disorders, headache, multiple sclerosis, movement disorders, diseases of muscles and nerves, and dementia. *2-4 credits*

IMED 609 Oncology

The purpose of this elective clerkship is to provide students with an overview of medical oncology. The student will gain a fundamental understanding of the diagnostic and therapeutic approach to patients with cancer. *2-4 credits*

IMED 610 Pulmonary Medicine

This elective provides a broad experience in pulmonary medicine and underscores the basic pathophysiology of diseases. It encompasses inpatient consultations, outpatients, and critical care assessment and management. *2-4 credits*.

IMED 611 Sleep Medicine

This elective clerkship introduces the students to a multidisciplinary understanding of the causes and treatment of sleep disorders by pulmonary, neurology, ENT, and dental specialists. *2-4 credits*

IMED 612 Geriatric Medicine

This elective clerkship is designed to provide additional training in the principles of aging, approach to the older patient, and systems of care, along with syndromes, psychiatric considerations and diseases and disorders of the geriatric patient. *2-4 credits*

IMED 613 Endocrinology

This elective in endocrinology and metabolism may provide students with inpatient consultation experience and/or out-

patient endocrinology exposure. Focus will be on pathogenesis and management of all endocrine hypothalamic, pituitary, adrenal, thyroid, parathyroid, pancreas, and gonadal diseases as well as syndromes of diabetes mellitus and hyperlipidemia. *2-4 credits*

IMED 614 Infectious Disease

The purpose of this elective is to familiarize students with the evaluation, diagnosis, and treatment of patients with both common and unusual infectious diseases. *2-4 credits*

IMED 615 Rheumatology

This elective provides an opportunity for students to better understand clinical presentations of immunologically related diseases of joints, soft tissues, autoimmune disorders, and vasculitis. *2-4 credits*

OBGY 600 General Obstetrics and Gynecology

This elective clerkship provides students with advanced experience in obstetrics and gynecology. Experiences will vary among sites but may include normal labor and delivery, high risk pregnancies, and routine prenatal care. Gynecology may include benign gynecology and/or gynecologic oncology. *2-4 credits*

OBGY 601 General Gynecology

This course provides students with clinical exposure, observation and training to further their understanding of general gynecology. Students focus on the diagnosis, treatment and management of common and uncommon gynecological conditions with a greater depth than the Elective I rotation. During the clerkship, students will continue to improve their abilities to obtain, record, analyze, and communicate clinical information. *2-4 credits*

OBGY 602 General Obstetrics

This course provides students with clinical exposure, observation and training to further their understanding of general obstetrics. Students focus on the diagnosis, treatment and management of common and uncommon obstetrical conditions with a greater depth than the elective I rotation. During the clerkship, students will continue to improve their ability to obtain, record, analyze, and communicate clinical information. *2-4 credits*

OBGY 603 Medical Genetics

This elective provides an introduction to the field of clinical genetics. Students have the opportunity to learn about a range of genetic disorders, genetic diagnostics and genetic counseling by participating in the evaluation of fetal development during pregnancy. *2-4 credits*

School of Medicine

OBGY 604 Reproductive Endocrinology

This elective provides students opportunities to observe and assist in the management of patients with complex problems related to reproductive endocrinology and infertility. These may include hormonal imbalances, menstrual disturbances, sexual development and function problems, infertility, pregnancy loss, and menopause. *2-4 credits*

OBGY 605 Maternal Fetal Medicine

This elective provides students opportunities to observe and assist in the management of patients with complex problems related to maternal fetal medicine. These may include preterm labor with or without premature preterm rupture of membranes, multiple gestations, diabetes in pregnancy (pre-existing and gestational), hypertension in pregnancy (including chronic hypertension, gestational hypertension, mild or severe pre-eclampsia), advanced maternal age, and genetic conditions. *2-4 credits*

OBGY 606 Global Obstetric and Gynecological Medicine

This interdisciplinary elective provides students opportunities to observe and assist in the management of patients with problems and conditions unique to women. Students will perform comprehensive women's health assessments and support the team during deliveries and gynecological visits in an international ambulatory setting. *2-4 credits*

OPHT 600 Ophthalmology

This elective clerkship provides students with a comprehensive introduction to ophthalmology and how to recognize and manage common ocular diseases and emergencies. The students will gain information to manage routine ophthalmologic conditions in family medicine, internal medicine, and pediatric practice. *2-4 credits*

PATH 600 General Pathology

This elective clerkship provides students with exposure to commonly encountered cases. Students will develop a broad overview of the field and an understanding of the role of the pathologist in patient care. Students will gain a better understanding of common diagnostic tests utilized to assist in the identification of malignant, inflammatory, autoimmune, infectious and other disease states. *2-4 credits*

PATH 601 Forensic Pathology

This elective introduces forensic pathology. The students will learn the differences between hospital and forensic autopsies, natural and non-natural causes of death, and types of wound presentations associated with non-natural causes of death. *2-4 credits*

PEDS 600 General Pediatrics

This elective clerkship provides students with additional clinical exposure, observation and training to further their understanding of pediatric patients. Focus will be on inpatient and outpatient medical diagnoses, treatment plans, and management of infants and children. *2-4 credits*

PEDS 601 Pediatric Emergency Medicine

This elective will expose the students to a broad spectrum of pediatric disease and trauma in the Emergency Medicine service. Focus will be on the chief complaint while simultaneously assessing the entire child to differentiate between a "well child" and an "ill child." *2-4 credits*

PEDS 602 Neonatology

The goals of this elective are to familiarize the student with normal and abnormal adaptation of the newborn, to recognize various clinical entities peculiar to newborns (hyaline membrane disease, congenital heart disease, meconium aspiration, syndromes, genetic diseases, etc.) and their management. *2-4 credits*

PEDS 603 Developmental Pediatrics

The purpose of this elective is to reinforce previously learned skills and principles of treating children with developmental and behavioral problems. Students will receive additional training in a variety of medically directed diagnostic services for infants, children, and adolescents suspected of developmental and/or learning problems, including those at risk because of problems associated with birth. *2-4 credits*

PEDS 604 Pediatric Endocrinology

This elective will provide an overview in the diagnosis and management of pediatric endocrine disorders. Students will participate in clinical activities and attend clinical conferences. *2-4 weeks*

PEDS 605 Pediatric Cardiology

This elective will expose students to a variety of children with suspected or confirmed congenital or acquired heart disease. Emphasis will be on history-taking, physical examination, and interpretation of electrocardiograms and X-rays and may include exposure to echocardiography, cardiac catheterization, and electrophysiological studies. *4 credits*

PEDS 606 Pediatric Neurology

This elective provides students opportunities to improve evaluation and management skills for neurological problems in infancy, childhood, and adolescents. *4 credits*

School of Medicine

PMNR 600 Physical Medicine and Rehabilitation

This elective clerkship introduces the students to the needs of individuals with disabilities, that may include sports injuries, acute trauma injuries, and disease. The students will focus on diagnosing and treating disorders and diseases unique to the patients. Special emphasis is placed on attaining maximum functional independence for individuals. *2-4 credits*

PSYC 600 General Psychiatry

This elective provides students with additional clinical exposure, observation and training to further understand psychiatric patients. Focus will be on inpatient and outpatient diagnoses, treatment, and management. *2-4 credits*

PSYC 601 Adult Psychiatry

This elective clerkship will expose students to adult psychiatric conditions that demonstrate a wide range of disorders, including manifestations of “organic” brain disorders, psychoses, depressive illness and personality disorders. The student may have experiences in both inpatient and outpatient settings and interact with other agencies within mental health. *2-4 credits*

PSYC 602 Child and Adolescent Psychiatry

This elective introduces students to commonly encountered psychiatric disorders of childhood. Students will gain additional experience interviewing children, adolescents, and families as well as enhance diagnostic skills for psychiatric illness in children and adolescents. *2-4 credits*

PSYC 603 Addiction Medicine

The purpose of this elective is to provide an understanding of patients with substance abuse disorder across a diverse spectrum of drugs, stages of use, and presentations. *2-4 credits*

PSYC 606 Global Tele-psychiatry

The purpose of this elective is to provide an understanding of the use of tele-psychiatry to meet patients’ needs for accessible mental health services in a global setting. Students will travel to a global setting to do in-person mental health assessments and provide support for patients new to tele-psychiatry. The attending psychiatrist will be located outside the venue. *2-4 credits*

RADI 600 Radiology

The purpose of this elective is to familiarize the student with the basic observation and language skills necessary for interpretation of imaging studies. The student will become familiar with appropriate methods for common medical conditions and with basic procedures and anatomy and indications for imaging studies. *2-4 credits*

SURG 600 General Surgery

This elective clerkship provides students with the opportunity to build upon skills developed in SURG 500 in year three. The students will be part of a multidisciplinary medical team caring for the surgical patients. Focus will be on the importance of evaluation of potential surgical patients, appropriate referral to surgical specialists, and effective communication with both the patient and the specialist. *4-8 credits* (Note: students may take the NBME Advanced Surgery Shelf Exam to earn Honors or High Satisfactory)

SURG 601 Orthopedic Surgery

This elective clerkship provides students with an understanding of common orthopedic disorders and injuries with regard to examination, diagnosis, and management. The students will integrate medical and surgical knowledge in the care of trauma victims and musculoskeletal injuries. *2-4 credits*

SURG 602 Urology

This elective provides students with an introduction to the multidisciplinary management of benign and malignant disease of the urogenital system.

SURG 603 Plastic and Reconstructive Surgery

This elective introduces students to various aspects of plastic surgery and may include trauma, congenital and traumatic defects of face and hand, breast reconstruction, burn reconstruction and general aspects of wound healing and infection as they relate to the skin and open wounds. *2-4 credits*

SURG 604 Trauma Surgery

This elective provides students an opportunity to be part of a trauma team. The students will be exposed to daily activities including rounds, on-calls, and educational conferences.

SURG 605 Transplant Surgery

This elective will provide the student with an overview of transplantation, transplant immunology, and organ donation. The students will function as part of an integrated team. *4 credits*

SURG 606 Pediatric Surgery

This elective will provide students with a better understanding of the current concepts of pediatric surgery as related to normal pediatric growth and development, pathophysiology, pediatric evaluation and assessment, diagnosis and clinical management. *4 credits*

School of Medicine

Sub-Internship Opportunities

Some electives offer an opportunity to complete a sub-internship. These are designated on the transcript with an “s” following the course number. This is an acting internship, designed to allow students the opportunity to *actively* participate in the management of patients with common clinical presentations encountered in the practice of hospital-based medicine. Students typically will have the opportunity to experience a broad range of illness severity ranging from acute care upon presentation to the emergency department to life threatening processes in the intensive care unit. Patients do not have to have been previously worked up. Students will have the opportunity to improve their basic clinical skills, learn new inpatient procedures and examination techniques, and assess the effectiveness of their clinical interventions.

The student will have increasing responsibility for the care of patients during the course of this elective opportunity. In preparation for a sub-internship, students may be required to take a fourth year elective in the discipline prior to requesting a sub-internship. Student progress will be assessed in the areas of entrustable professional activities.

Minimal expectations for a sub-internship elective:

- An inpatient rotation that gives the sub-intern primary responsibility for providing care
- Develop, consolidate, and refine the knowledge and skills acquired during elective I clerkships
- Ensure increased responsibility in the evaluation and management of acutely ill, hospitalized patients in directly supervised patient-care settings
- Promote development of effective inter-professional teamwork and communication skills

The sub-internship must contain rigorous expectations that define:

- Level of supervision
- Duty-hour regulations and clinical workload (typical of an intern)
- Care transitions and cross-coverage responsibilities
- Access to EHRs
- Opportunities for evidence-based, high value care practice

Research Elective Opportunities

Elective clerkship experiences are designed to provide the students with a basic understanding of the selected area of interest. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into

medical practice to prepare for more advanced study in the discipline. 4-8 weeks

FMED 700	Family Medicine Research
CLMD 700	Clinical Medicine Research
IMED 700	Internal Medicine Research
MEDE 700	Medical Education Research
OBGY 700	Obstetrics and Gynecology Research
PEDS 700	Pediatric Research
PSYC 700	Psychiatry Research
SURG 700	Surgery Research



School of Biomedical Sciences

School of Biomedical Sciences

TMSU-SBS Mission Statement

The Trinity Medical Sciences University School of Biomedical Sciences prepares knowledgeable and culturally competent graduates for careers in healthcare.

Vision

The School of Biomedical Sciences is a leading contributor to improved global health services through excellence in the biomedical sciences.

Graduates from the Trinity School of Biomedical Sciences may pursue one or more of the following:

- Enrollment in the Doctor of Medicine program
- Potential Enrollment in graduate and doctoral programs in health care professions
- Potential Careers in healthcare related fields

The School of Biomedical Sciences offers programs of study to candidates who have successfully completed at least 12 years of general education.

The curricula of the School will allow students to:

- Complete an Associate's Degree in Health Sciences (66 credit hours with optional transfer credit)
- Complete a Bachelor's Degree in Health Sciences (120 credit hours including required transfer credit)
- Complete the premedical program designed to provide the required 90 credit hours for possible promotion into the MD degree program

Note: For students completing the premedical program and entering the Doctor of Medicine program, no degree will be awarded at the completion of the premedical program and any degree for which the student is eligible will be issued at the completion of the Doctor of Medicine program.

Curriculum

Associate of Science Degree (Health Sciences)

The Trinity School of Biomedical Sciences awards an Associate of Science (AS) degree.

To earn an Associate's Degree, you must:

- Complete a minimum of 66 semester hours of credit toward graduation (inclusive of transfer credits)

- Satisfy the TMSU residential policy requirements
- Complete the requirements of the Core General Education Program (30 credit hours)
- Complete the required Science/Major (36 credit hours)
- Meet the College's academic standards
- Clear any incomplete marks from your records

The Trinity School of Biomedical Sciences has designed a core curriculum to provide students with the knowledge and skills they need for a career and life in medicine. All core requirements must be met by either taking courses within Trinity School of Biomedical Sciences or by applying for acceptance of transfer credit from another accredited school of higher education. The Core General Education program consists of a common core in communication and literacy, foundational courses in the natural and social sciences, and courses representing culture and society.

Core General Education – Minimum of 30 credit hours

The common Core General Education Program consists of courses in the following areas:

- Communications/Literacy – minimum 12 credit hours
- Natural/Social Sciences – minimum 12 credit hours
- Culture/Society – minimum 6 credit hours

In addition to the Core General Education program, students seeking an Associate's Degree must also complete the required credit hours for their Science/Major Education Program.

Science/Major Education – Minimum 36 credit hours

Students seeking to fulfill the minimum of 36 credit hours of Science/Major Education have a variety of subject areas from which to choose their courses. The specific curriculum of a student will depend upon the prior courses taken and the courses needed to fulfill graduation requirements. Any/all courses listed as part of the Science/ Major Education Program are eligible for use as part of this requirement. Some General Core education courses may also be used to satisfy this requirement at the discretion of the registrar with approval from the Dean.

Completion of the Associate of Sciences degree does not meet the requirement for minimum credit hours necessary for application to the School of Medicine. Students wishing to subsequently apply to the Doctor of Medicine program must complete 90 credit hours including specific required courses. Students in good standing may elect to continue toward the necessary credit hours required. See the Admissions section of this catalog for details.

Bachelor of Science Degree (Health Sciences)

The Trinity School of Biomedical Sciences awards a Bachelor of Science (BS) degree.

To earn a Bachelor's Degree, you must:

- Complete a minimum of 120 semester hours of credit toward graduation (inclusive of transfer credits)
- Satisfy the TMSU residential policy requirements
- Complete the requirements of the Core General Education Program (30 credit hours)
- Complete a major (90 credit hours)
- Meet the College's academic standards
- Clear any incomplete marks from your records

All Core General Education requirements must be met by either taking courses within Trinity School of Biomedical Sciences or by applying for acknowledgement of transfer credit from another accredited school of higher education. The Core General Education program consists of a common core in communication and literacy, foundational courses in the natural and social sciences, and courses representing culture and society.

Core General Education – Minimum of 30 credit hours

The common Core General Education Program consists of courses in the following areas:

- Communications/Literacy – minimum 12 credit hours
- Natural/Social Sciences – minimum 12 credit hours
- Culture/Society – minimum 6 credit hours

In addition to the Core General Education program, students seeking a Bachelor's Degree must also complete the required credit hours for their Science/Major Education Program.

Science/Major Education – Minimum 90 credit hours

Students seeking to fulfill the minimum of 90 credit hours of Science/Major Education have a variety of subject areas from which to choose their courses. The specific curriculum of a student will depend upon the prior courses taken and the courses needed to fulfill graduation requirements. Any/all courses listed as part of the Science/ Major Education Program are eligible for use as part of this requirement. Some General Core education courses may also be used to satisfy this requirement at the discretion of the registrar with approval from the Dean.

Students may also elect to choose specific courses to satisfy the requirements to prepare for application to the Doctor of Medicine program. Required courses for promotion into the Doctor of Medicine program are shown with an asterisk (*).

Students must attend their final Term on campus in St. Vincent. This is required regardless of prior academic record. (Excluding courses listed that may have already been taken or credit transferred.)

Students wishing to continue into the Doctor of Medicine program will be reviewed by the Academic Progress Committee. Students must have completed all courses required by the School of Medicine. Promotion into the MD Program is not guaranteed. Students must perform at a level indicative of potential success in the MD Program. Students who hold a cumulative GPA of 3.0 are eligible for promotion without review. If cumulative GPA between 2.5 and 2.99, academic record will be reviewed.

5-6 Year Premed / MD Program

The Trinity School of Biomedical Sciences offers a 5-6 year Program specifically for students with Advanced Level or International Baccalaureate credentials.

Entry requirements for the program are outlined in the Admissions section.

To complete the premedical section of the 5-6 Year Program, you must:

- Complete a minimum of 90 semester hours of credit toward graduation (inclusive of transfer credits)
- Satisfy the TMSU residential policy requirements
- Complete the requirements of the Core General Education Program (30 credit hours)
- Complete the required Science/Major (60 credit hours)
- Meet the College's academic standards
- Clear any incomplete marks from your records

The Trinity School of Biomedical Sciences has designed a core curriculum to provide students with the knowledge and skills they need for a career and life in medicine. All core requirements must be met by either taking courses within Trinity School of Biomedical Sciences or by applying for transfer credit from another accredited school of higher education. The Core General Education program consists of a common core in communication and literacy,

School of Biomedical Sciences

foundational courses in the natural and social sciences, and courses representing culture and society.

Core General Education – Minimum of 30 credit hours

The common Core General Education Program consists of courses in the following areas:

- Communications/Literacy – minimum 12 credit hours
- Natural/Social Sciences – minimum 12 credit hours
- Culture/Society – minimum 6 credit hours

In addition to the Core General Education program, students seeking an Associate's Degree must also complete the required credit hours for their Science/Major Education Program.

Science/Major Education – Minimum 60 credit hours

Students seeking to fulfill the minimum of 60 credit hours of Science/Major Education have a variety of subject areas from which to choose their courses. The specific curriculum of a student will depend upon the prior courses taken and the courses needed to fulfill graduation requirements. Any/all courses listed as part of the Science/ Major Education Program are eligible for use as part of this requirement. Some General Core education course may also be used to satisfy this requirement at the discretion of the registrar with approval from the Dean.

The completion of the final term on campus in St. Vincent is required for any student seeking admission to the MD Program within this program.

Students must take specific courses to satisfy the requirements to prepare for application to the Doctor of Medicine program. Required courses for promotion into the Doctor of Medicine program are shown with an asterisk (*).

Promotion into the MD Program is not guaranteed. Students must perform at a level indicative of potential success in the MD Program. Students who hold a cumulative GPA of 3.0 are promoted to the MD Program. All Premed students will be reviewed by the Academic Progress committee at the end of their final Term. Students with cumulative GPA between 2.5 and 2.99 will be considered on a case-by-case basis.

Premedical Program

The Trinity School of Biomedical Sciences Premedical Program is designed to provide both undergraduates and

post-baccalaureate students a path to completing the requirements necessary for entry into medical school. The program advances students' knowledge of careers in the health sciences and helps to strengthen their application to medical school. The Premedical Program is designed to work with undergraduate students who need to complete the necessary credit hours and required courses for entry into Trinity School of Medicine, or to assist students who have already achieved an undergraduate degree at an accredited U.S. university by allowing them to take or retake required courses to demonstrate mastery of the material and strengthen their application to medical school.

The specific curriculum of a student will depend upon the prior courses taken and the courses needed to fulfill the requirements to enter the Doctor of Medicine program. A minimum total of 90 credit hours is required for entry into the MD Program.

Students wishing to continue into the Doctor of Medicine program must have completed all prerequisite courses required by the School of Medicine. Promotion into the MD Program is not guaranteed. Students must perform at a level indicative of potential success in the MD Program.

Educational Work Load

Students may take up to 18 credit hours per semester in order to make normal academic progress. Students seeking to enroll in more than 18 credit hours must have the approval of the Dean.

Policy for Online or Live Classes

North American students may choose to attend class Online or in person on Campus in St. Vincent. All Online classes are live and synchronous with the times and days of the courses in St. Vincent and its Atlantic time zone. Online students must adapt their schedule accordingly. The final Premedical term is not offered Online and must be taken on Campus for all students. Exceptions may be made for students that are applying for two or less required courses and are not a part of the general premedical program.

Students from Asia and all other countries outside of North America must attend all Premedical courses on Campus in St. Vincent, no Online options will be offered.

SCHOOL OF BIOMEDICAL SCIENCES COURSES

Courses available include but are not limited to the following:

Core General Education Courses

Communication and Literacy (min. 12 credit hours)

ENGL 101	English Composition I*
ENGL 102	English Composition II
ENGL 110	Public Speaking
ENGL 203	Communication Skills I
ENGL 204	Communication Skills II

Natural and Social Science (min. 12 credit hours)

BIOS 101	General Biology*
BIOS 170	Lifespan Development
BIOS 208	Cell & Molecular Biology*
CHEM 203	Inorganic Chemistry I&II*

Culture and Society (min. 6 credit hours)

BIOS 209	Introduction to Psychology
CGSC 100	College Success
BIOS 204	Epidemiology & Great Epidemics
BIOS 217	Medical Ethics

Science/Major Education Courses

Health Professions

BIOS 102	Medical Terminology
BIOS 151	Medical Informatics

Natural and Social Science

BIOS 327	Introduction to Pharmacology
CHEM 210	Organic Chemistry I*
CHEM 211	Organic Chemistry II
MATH 201	Mathematics I*
MATH 202	Mathematics II
MATH 210	Mathematics III
PHYC 201	Physics I
PHYC 202	Physics II

Research

RSCH 100	Critical Thinking in Research
BIOS 230	Research Methods
BIOS 231	Capstone Research

Science/Major Transitional Term (Required if no Bachelor Degree or more than 2 prerequisites still needed)

BIOS 201	Introduction to Microbiology
BIOS 205	Introduction to Anatomy
BIOS 210	Introduction to Physiology
BIOS 226	Introduction to Genetics
BIOS327	Introduction to Pharmacology
CHEM 220	Biochemistry

Students entering the Associate of Science Degree Program, Bachelor of Science Degree Program, 5-6 Year Program, or Premedical Program at Trinity School of Biomedical Sciences will be assigned a course of study based on their incoming transfer credits and the remaining prerequisites and program requirements.

ADMISSION TO THE TRINITY SCHOOL OF BIOMEDICAL SCIENCES

Associate of Science Degree

Students who have completed a year of post-secondary coursework may transfer those credits to complete an Associate of Science in Health Sciences degree at TMSU. This degree requires a total of 66 hours, including transfer credits. A minimum of 30 credit hours must be completed at TMSU.

Admission Requirements

- Completion of senior or upper secondary school, high school, General Educational Development Test (GED) or equivalent educational experience sufficient to gain entry to a college or university.
- Verbal, written, and conversational proficiency in English.

Upon application to the program, transfer credits will be assessed by the Registrar according to the curriculum requirements. The remaining course credit requirements will be noted for the student with guidance as to specific courses needed. Periodic review of the student's progress will be completed by the student and their faculty advisor to ensure the student will be eligible for graduation. Review of the registrar will be required to ensure graduation requirements are met.

Bachelor of Science Degree

The requirements for a Bachelor of Science in Health Sciences Degree at Trinity Medical Sciences University consist of a Core General Education program and a Science/Major program. This is intended to provide the skills, knowledge, and perspective all graduates need to have beyond the material covered in the major. Students who earned 30 credit hours in an accredited institution of higher learning may request transfer of those credits to earn a Bachelor of Science degree with strong emphasis on the biomedical sciences and communication skills. This degree requires a total of 120 total credit hours of coursework, including transfer credits, with a minimum cumulative GPA of 2.0. A minimum of 30 credit hours must be completed at TMSU. Completion of the Bachelor of Science Degree does not guarantee admission to the MD program, but graduates are eligible to apply.

Admission Requirements (For Degree Only)

- A minimum of 30 credit hours, or equivalent, from an accredited institution of higher learning
- Verbal, written, and conversational proficiency in English

Upon application to the program, transfer credits will be assessed by the Registrar according to the curriculum requirements. The remaining course credit requirements will be noted for the student with guidance as to specific courses needed. Periodic review of the student's progress will be completed by the student and their faculty advisor to ensure the student will be eligible for graduation. Review of the registrar will be required to ensure graduation requirements are met.

5-6 Year Premed to MD Program

Students with 30 or more transfer credits may be able to advance into the MD program within 3-4 terms, and complete their MD degree within 5 years. Students with fewer transfer credits or no transfer credits may take between 4 & 6 terms to complete the 90 credit hours required prior to advancing into the 4 year MD program and complete their MD degree within 6 years. However, students will progress at a pace that works best for their academic capabilities. This may take longer for some students.

Samples of transfer credits are:

- 10 + 2 for India and Nepal with a score of 80% minimum in all classes
- A levels in USA.

Students must have good Verbal, written, and conversational proficiency in English to enter the School of Biomedical Sciences as determined by the Admissions Committee.

- The Academic Progress Committee will determine each student's pace through the program based on performance and other factors considered.

In the 5-6 Year MD program, students must take 3-4 terms of undergraduate advanced science and mathematics courses as well as rigorous English and Communications courses designed to provide the student the proper skills to advance to the MD program. Transfer credit will be assessed and applied as appropriate.

Premedical Program

Students who lack prerequisite undergraduate courses may either complete those prerequisite courses at another accredited institution before applying for admission to the MD Program or may enter the University's Premedical Program. Entrance requirements include:

A specific course of study will be designed for each student seeking to enter the program. This course of study must be completed to ensure the student is eligible for presentation for acceptance to the MD Program. All prerequisite courses must be included in the Study Plan. Promotion into the MD Program is expected, but not guaranteed. Students must perform at a level indicative of potential success in the MD Program. All Premedical Program students will be reviewed by the Academic Progress committee at the end of their Final Term. A total of 90 credit hours is required. Students who hold a cumulative GPA of 3.0 or higher will be granted promotion. Students with GPA 2.5 – 2.99 will be reviewed by the committee.

International Applicants

An international applicant is an applicant who is not a citizen or permanent resident of the U.S. and requires a visa to study in the U.S. International students must meet all general requirements for admission as stated in this catalog and other admission publications.

Requirements for International Applicants

International applicants whose native language is not English must also demonstrate objective competency in English by either:

- Completing the Test of English as a Foreign Language (TOEFL) within two years of the applicant's anticipated matriculation date with a minimum score of 79 for the IBT (Internet-Based Testing) and a minimum score of 26 on the speaking component.

Applicants to the School of Biomedical Sciences may be required to complete English classes as part of the curriculum to augment their English and communication skills.

Transfer Credit Assessment Policy

Applicants wishing to provide transfer credits from a prior, accredited undergraduate university may do so upon application. Transfer credit assessment is done by the Registrar and is subject to adjustment.

Applicants with prior college experience will have previously completed courses, with a minimum grade of C or 70%, reviewed by a faculty committee. Courses meeting the requirements of equivalent premedical program courses shall be transferred. No grade or grade point value for transferred courses will be entered on the TMSU transcript.

General Core Education transfer courses do not have an expiration date; however, transfer credit for Science/Major courses requires that the courses must be 10 years old or less.

Official transcripts must be received by the Office of the Registrar prior to beginning coursework at Trinity School of Biomedical Sciences. Study plans are not contractual and the University reserves the right to modify or cancel a study plan as needed.

BACKGROUND AND EDUCATIONAL CREDENTIAL REVIEW AND VERIFICATION

Trinity School of Medicine will maintain the right to conduct background and educational credential verification at any time during student enrollment. These reviews may include, but are not limited to, identity verification, Visa viability review, employment verification, credit history, driver's history, criminal records, educational credential confirmation.

Non-U.S. Citizens

As part of the application, applicants who are not U.S. citizens or do not have permanent U.S. resident status are required to provide the Admissions office with a copy of their USCIS documentation and visa.

Previous Attendance at Foreign Institutions

Applicants with college credit at foreign institutions, or institutions teaching in a language other than English, must submit official foreign transcripts to one of the following evaluation services as part of the admissions processes.

Those applicants applying in either of the following situations:

- a. as a new, first time student but has attended a non-U.S. college or university for any portion of their undergraduate degree, or
- b. as a transfer student from a non-U.S. medical school whose curriculum differs from U.S. medical education curricular standards

must have their college/university level courses evaluated by one of the listed below.

Educational Credential Evaluators, Inc.

PO Box 514070
Milwaukee, WI 53203-3470
414-289-3400

Josef Silny and Associates

International Education Consultants
7101 SW 102 Avenue
Miami, FL 33171

World Education Services, Inc.

PO Box 745 Old Chelsea Station
New York, NY 10113-0745
212-966-6411

TMSU will consider credit only if an internal review or the evaluation service has indicated the coursework taken was similar to coursework taken at an institution that is comparable to a regionally accredited U.S. institution of higher learning.

Tuition and Fees

Fall Term 2023 - Summer Term 2024

	Per Term	One Time
Tuition		
Per Term - Flat Rate, 6+ hours	\$ 4,100	
Fees		
Exam / Records Fee (a)	\$ 425	
Student Activity Fee	\$ 50	
Student Health Insurance (b)	\$ 1010	
New Students Fee (c)		\$ 475
Total Tuition	\$ 5,585	\$ 475

2024 SEPTEMBER TUITION

	Per Term	One Time
Tuition		
Per Term - Flat Rate, 6+ hours	\$ 4,200	
Fees		
Exam / Records Fee (a) Student	\$ 425	
Activity Fee	\$ 50	
Student Health Insurance (b)	\$ 1010	
New Student Fee (c)		\$475
Total Tuition	\$ 5,685	\$475

(a) Listed tuition and fees are per Term (trimester). The number of terms for the programs of study offered in the School of Biomedical Sciences will vary depending upon the number of previous course credits completed by a student prior to matriculation at TMSU and/or the necessary course prerequisites for eligibility for admission to the Doctor of Medicine (MD) program.

(b) Students are required to carry University-provided health insurance during all terms in which they actively enrolled in course activities conducted in St. Vincent and the Grenadines or in the U.S. for clinical rotations. Students located outside St. Vincent while taking online courses in the School of Biomedical Sciences are not eligible to enroll in the student health insurance plan. Vincentian nationals are exempt from enrollment in the student health plan during terms of study in St. Vincent. The listed premium per term in the tuition and fee tables is an estimate of the premium for the 2023/24 plan year and may vary upon policy renewal.

(c) First time student residents in St. Vincent and the

Grenadines will incur this one time new student fee to cover bed linens, towels and other resident supplies.

Student housing charges are not shown.

Please refer to the Refunds/Credit section of the School of Medicine Catalog for specific details regarding refund/credit eligibility.

Books & Instruments

The approximate costs for required textbooks are:
Per Year \$300.00

Competency-based Learning

Programs of study in the School of Biomedical Sciences emphasize competencies to enhance skills essential for a future health care professional.

Knowledge

Goal Statement: Students are expected to master fundamental information in sciences, mathematics, English, and other courses and apply these appropriately. Graduates from the School of Biomedical Sciences will be able to:

- Demonstrate content knowledge and skills in foundational courses required by biomedical professionals
- Demonstrate information literacy
- Demonstrate quantitative reasoning
- Demonstrate longitudinal learning through coursework

Critical Thinking

Goal Statement: Students are expected to become capable of critical and open-minded questioning and reasoning. Graduates from the School of Biomedical Sciences will be able to:

- Develop the skills of self-reflection and peer assessment to improve personal performance.
- Demonstrate the ability to analyze literature and written material
- Demonstrate the ability to distinguish between well-reasoned and poorly-reasoned arguments

Communication Skills

Goal Statement: Students are expected to master both written and oral communication to contribute effectively as a healthcare professional. Graduates from the School of Biomedical Sciences will be able to:

- Demonstrate effective presentation skills to faculty and peers.
- Demonstrate effective listening skills
- Demonstrate effective written communication

TMSU-SBS Course Grading

All courses are graded according to the TMSU Grading Policy. Additional considerations are provided below.

Common Rules of Grading

Courses may have tests, quizzes, and other assignments of varying weights toward a final grade. In such cases, final grades are calculated with weighted means.

Grading System for TMSU-SBS

Faculty will determine the distribution of points in each course and inform students at the beginning of each term.

Approval of grades

All course grades are compiled by the course and directors before being presented to the Academic Progress Committee (APC) for approval. Following approval, they are published to the students and entered onto the student's transcript.

A student has the right to appeal a course grade on an individual basis within two weeks after the finalization of grades. Grade appeals should go first to the faculty member, then if not rectified, they may be raised to the Assistant Dean who will consult with the Dean. After this two-week period, grades may not be appealed.

Failed course remediation

Students are allowed to repeat a failing course one time. Withdrawal from a previously failed course, or failing a repeated course, will result in dismissal.

Academic Standing

Undergraduate students are expected to maintain a 3.00 or higher GPA. Students are in good academic standing if they meet the minimum GPA standards based on cumulative GPA credit hours. A student must be in good academic standing in order to graduate.

Students on academic probation, academic warning, or professionalism warning status are not considered in good academic standing.

Honors Designation

In the undergraduate and graduate programs in TMSU-SBS, a degree will be granted with highest honors as shown:

Summa cum laude	3.90-4.00
Magna cum laude	3.85-3.89
Cum laude	3.80-3.84

Only students who have completed at least 60 credit hours in the TMSU-SBS curriculum are eligible for honors designations.

Academic Warning

An Academic Warning may be applied by the Registrar with consultation by the APC when there is a concern about a student's academic performance. Students who have a cumulative GPA of 2.25 or below will be placed on SBS Academic Warning. Being placed on Academic Warning will result in a deceleration of course load and other restrictions as deemed appropriate by the APC. Failure to improve the cumulative GPA to above a 2.25 within two terms will result in Academic Probation.

Academic Probation

Academic Probation is an official status designated by the APC when it has concern about a student's academic ability. A cumulative GPA of 2.00 or lower will result in students being placed in Academic Probation. Students will no longer be allowed to participate in extracurricular activities and will be required to meet with an Academic Counseling Team member three times during the following term. Students who do not improve their cumulative GPA within two semesters will be subject to dismissal.

Academic Dismissal

Student progress will be reviewed by the APC each term.

Advancement to the Doctor of Medicine Courses

Advancement to the School of Medicine is not guaranteed. Students may advance to the School of Medicine from the School of Biosciences as follows:

- Successful completion of a minimum of 90 credit hours, including transfer credits
- Successful completion of all requirements for admission to the School of Medicine including all prerequisite courses
- Successful completion of the premedical courses with a GPA of 3.0 or higher
- Students with a GPA of 2.5-2.99 will be reviewed for promotion by the APC
- Maintained the standards of ethical, moral, personal and professional conduct required of TMSU-SBS

Course Descriptions

BIOS 101 General Biology

This course is designed to introduce students to the fundamentals of biology. A chemical and molecular approach is used to study the structure and function of living organisms. It also deals with the principles of evolution, diversity of life, and ecosystems. Emphasis is given to various organ systems that work together to perform coordinated functions while contributing a particular function to the body. *3 credits*

BIOS 102 Medical Terminology

This course provides the necessary framework to learn the basic rules and elements of medical terms. The course will focus on how to break down medical terms into their components: prefix, suffix and root. By learning the individual parts of medical terms, students will be able to understand their origins, definitions and abbreviations in addition to pronunciation and spelling. *3 credits*

BIOS 151 Medical Informatics

This course provides a combination of computer science, systems, and communications to address computer literacy needed to effectively collect, manipulate, collaborate and publish health science information. *3 credits*

BIOS 170 Lifespan Development

This course covers the growth and development through the lifespan—including physical, cognitive and socioemotional changes through each stage of life. Students come to better understand psychological theories and concepts as they learn about key topics in each of these stages, including genetics, attachment, education, learning, disabilities, parenting, family life, aging, generativity, moral development, illnesses, and attitudes towards death and dying. *3 credits*

BIOS 201 Introduction to Microbiology (Transitional Term)

This course provides basic concepts of microbiology with emphasis on microbial pathogenesis and immunity. Topics include the chemical and physical nature of human microbial pathogens, aspects of medical microbiology, identification and control of pathogens, development and spread of antibiotic resistance, disease transmission and host resistance. The course also illustrates the general principles and techniques of laboratory diagnosis of infectious diseases. *3 credits*

BIOS 204 Epidemiology and Great Epidemics

This course introduces the concepts of epidemiology and focuses on the great epidemics of the world. The timelines of epidemics will be explored along with the causative factors influencing the progression of the disease and factors leading to decline of disease. *3 credits*

BIOS 205 Introduction to Anatomy (Transitional Term)

This course is designed to provide students with an understanding of the structure, function and regulation of the organ systems of the body and physiological integration of the systems to maintain homeostasis. Course content includes study of the musculoskeletal, circulatory, respiratory, digestive, urinary, immune, reproductive, and endocrine systems. The course covers the anatomical terminology to describe the basic structures of the human body. *3 credits*

BIOS 208 Cell and Molecular Biology

This course provides the basic concepts of the molecular architecture of eukaryotic and prokaryotic cells and organelles, including membrane structure and dynamics. Included are how these components are used to generate and utilize energy in cells during cell motility, division, cell cycle, adaptation, injury, and cell death. *3 credits*

BIOS 209 Introduction to Psychology

This course introduces the foundational theories that guide modern psychology and provides students with a conceptual framework for understanding the day to day applications of these principles. The course content includes the biology of behavior, learning, memory, cognition, motivation, emotion, personality, abnormal behavior and its therapies, social behavior and individual differences. *3 credits*

BIOS 210 Introduction to Physiology (Transitional Term)

This course provides students with an understanding of the function and regulation of the organ systems of the body and physiological integration of the systems to maintain homeostasis. Students receive a quantitative and integrated concept of sub-cellular, cellular and organ systems. *3 credits*

BIOS 217 Medical Ethics

This course gives students the opportunity to explore the world of medical concepts from both contemporary and historical perspectives. Students are provided with an apprenticeship in concept clarification, concept evaluation, and argument. They are taught the specific skills to inquire, reason, and make judgments. The history of medical ethics, major views regarding medical issues such as the conflicts between different types of benefits

to patients, physician duties, or patient autonomy are discussed. *3 credits*

BIOS 226 Introduction to Genetics (Transitional Term)

This course introduces the students to the basic concepts of inheritance, populations, mutations, and techniques used to assess each of these. *3 credits*

BIOS 230 Research Methods

This course introduces students to the two types of research, qualitative and quantitative, and their associated research methods. Students will be provided with the skills needed to select the appropriate research design, carry out the research and perform the data analysis where necessary. *3 credits*

BIOS 327 Introduction to Pharmacology

This course is designed to provide an overview of pharmacologic principles with an emphasis on therapeutic drug classification. For each therapeutic drug classification, basic mechanisms of drug actions, side effects, routes of administration, and common indications will be reviewed. Students will become familiar with common abbreviations and vocabulary terms related to drug therapy. The course will prepare students to recognize major drugs. *3 credits*

CGSC 100 College Success

This course provides new students with an orientation to the college environment. It works to build more capable lifelong learners by combining conceptual knowledge with practical strategies and skills. With engaging content and a focus on applying course concepts to real-world situations, College Success is particularly helpful for first-generation students. *3 credits*

CHEM 203 Inorganic Chemistry

This course provides students with the fundamental concepts of the chemical processes, enabling students to use chemical concepts in daily living and in the understanding of biochemistry. It covers matter, periodic table, writing and balancing chemical reactions, chemical composition and properties of compounds and modern atomic theory. It includes atomic structure, stoichiometry, understanding the symbols of elements and topics developed by thoughtful integration of problem-based instruction. This course further emphasizes the applications of chemistry in the field of medicine. Chemical reactions, equilibrium, acids and bases, conjugate acids and bases, thermodynamics, colligative properties of solutions, gas

laws, electrochemistry and topics related to biochemistry are included. This course enables the students to improve their problem-solving skills and mathematical skills. The course structure is designed to enhance the connections between theory and practice by engaging students. *3 credits*

CHEM 210 Organic Chemistry I

This course covers basic principles of structure and nomenclature of organic compounds, both aliphatic and aromatic. It emphasizes the principles of chemical reactions of organic compounds and the synthesis or degradation of bio-molecules in human metabolism. Saturated hydrocarbons, unsaturated hydrocarbons, synthesis, properties and reactions of alcohols, identification of functional groups, hybridization of hydrocarbons, stereochemistry cis-trans isomerism and addition reactions are covered. *3 credits*

CHEM 211 Organic Chemistry II

This course is a further study of the chemistry of carbon compounds from a functional group perspective. The course covers structure and nomenclature of specific organic compounds like thiols, aldehydes, ketones, amines, esters, carboxylic acids, carboxylic acids derivatives, benzene, phenol, Hofmann elimination reaction, Sn1, Sn2, E1 and E2 reactions. Emphasis is given on reactions, preparations, uses, and simple mechanisms and their biological application. *3 credits*

CHEM 220 Biochemistry (Transitional Term)

This course provides students with a basic understanding of the biomolecules involved in the molecular architecture of eukaryotic cells and organelles. The course also describes the structural and functional properties of different biomolecules (carbohydrates, proteins, and lipids), the principles of bioenergetics, concepts of enzymology, and nutritional biochemistry. *3 credits*

ENGL 101 English Composition I

This course is designed for students needing to improve their proficiency in comprehension and expression of the English language used in the U.S. It provides an understanding of effective communication through writing and speaking methods. *3 credits*

ENGL 102 English Composition II

This course extends the skills of communication and critical thinking through additional analysis of reading and writing tasks to support skills development. *3 credits*

ENGL 110 Public Speaking

Students learn the theoretical and practical skills they need to deliver effective, well-researched oral presentations. The course covers essential communication skills including listening and feedback, audience analysis, research and information literacy, and ethics. It offers practical advice about making one's voice heard (literally and figuratively), and introduces students to the major speech types, including informative, persuasive, and special occasion speeches. *3 credits*

ENGL 203 Communication Skills I

This course exposes students to the basic communication strategies such as speaking, listening, observing and memory training. *3 credits*

ENGL 204 Communication Skills II

This course builds on Communication Skills I and offers students practical experience in honing skills learned in Communication Skills I so as to develop interpersonal communication competency. *3 credits*

MATH 201 Mathematics I

This course provides the foundation for calculus. Trigonometry, exponential, logarithmic and polynomial functions are taught along with the concepts of limits and continuity. This course will include critical thinking and decision-making. *3 credits*

MATH 202 Mathematics II

Calculus deals with concepts of differentiation and integration and their applications. Students will learn to differentiate first principles and from the use of the Product, Quotient, and Chain Rules. They will also nudge up against the applications of maxima and minima. In integration, they will apply the definite integral, calculate areas and volume, do mathematical modeling, and solve differential equations. *3 credits*

MATH 210 Mathematics III

This course is an introduction to statistical concepts and analytical methods as applied to data in biomedical sciences. It emphasizes the basic concepts of quantitative analysis of data, and statistical inferences. Topics include: probability, frequency distributions, central tendency and dispersion; hypothesis testing, confidence intervals for means, variances and proportions; the chi-square statistics; data analysis and linear correlation. The course provides students a foundation to evaluate information critically. *3 credits*

PHYC 201 Physics I

This course is a conceptual study of units and dimensions of physical quantities, vectors and kinematics, laws of motion and their applications, work and energy, properties of matter, sound, light and optics, gravitational motion, fluid mechanics and thermal physics. Students review the experimental methods associated with the basic laws of mechanics, vibration, circular motion, fluids, heat and thermal properties of materials. *3 credits*

PHYC 202 Physics II

This course provides basic knowledge in biophysics. It enables the students to understand the concepts of human physiology. The course includes the study of electricity and magnetism, modern physics consisting of quantum physics, relativity, atomic physics, nuclear physics and nuclear medicine. The course is designed to increase problem-solving and analytical thinking skills. Students will complete research projects on the physics and applications of lasers, x-rays, ultra sounds and MRI. *3 credits*

RSCH 100 Critical Thinking in Research

This course is designed to help students learn key concepts in cognition that will aid in their academic success. Course material introduces the concepts of reasoning, representation, cultural judgement, information literacy, and metacognitive reflection. Students learn through conscious development of key skills by active learning instead of the accumulation of knowledge by memorization. All learning is applied in the review of research and the formulation of skills to aid in discerning viable and reliable sources of information. *3 credits*

RSCH 501 Thesis Research

This is the first in a two-course series to provide structure and support for students wishing to write a master's thesis. This course will begin with the proposal of a research topic and methods and will conclude with the completion of the first four (4) sections of a thesis draft. This course will be followed immediately by RSCH 502 – Thesis Defense. *6 credits*

RSCH 502 Thesis Defense

This is the second in a two-course series to provide structure and support for students wishing to write a master's thesis. In this course students will complete a final paper and defend it by presenting it to the faculty and dean. Prerequisite – RSCH 501. *6 credits*