



**HEALTH SCIENCE CENTER**  
**TEXAS A & M UNIVERSITY**

Procedures and Policies  
for Students Pursuing a Medical Sciences Degree

Ph.D. and M.S. (Thesis and Non-Thesis)

Fall 2020

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**Office of Graduate Studies**  
**Medical Research and Education Building (MREB I)**  
**8447 Riverside Parkway, Suite 1001**  
**Bryan, Texas, 77807**  
**Phone: 979-436-0753**  
**E-mail: [com-graduatestudies@tamu.edu](mailto:com-graduatestudies@tamu.edu)**

### **PROGRAM ADMINISTRATION**

|   |  |
|---|--|
| Assistant Dean of Graduate Studies          | Carol Vargas-Bautista, PhD<br><a href="mailto:carolvargasb@tamu.edu">carolvargasb@tamu.edu</a> |
| Chair, MSCI Graduate Program Committee      | Jon T. Skare, PhD<br><a href="mailto:jskare@tamu.edu">jskare@tamu.edu</a>                      |
| Houston Campus Director – MSCI Program      | David J. Reiner, PhD<br><a href="mailto:dreiner@tamu.edu">dreiner@tamu.edu</a>                 |
| Program Coordinator for MSCI Program        | Marquita Adrian<br><a href="mailto:amadrian@tamu.edu">amadrian@tamu.edu</a>                    |
| Houston Campus Coordinator – MSCI Program   | Cindy Lewis<br><a href="mailto:lewisca53@tamu.edu">lewisca53@tamu.edu</a>                      |
| Director - MD/PhD Program                   | Julian Leibowitz, MD, PhD<br><a href="mailto:leibowitz@tamu.edu">leibowitz@tamu.edu</a>        |
| Program Coordinator for MD/PhD Program      | Mary Imran<br><a href="mailto:imran@tamu.edu">imran@tamu.edu</a>                               |
| Director – MD+ Program                      | Warren Zimmer, PhD<br><a href="mailto:wezimmer@tamu.edu">wezimmer@tamu.edu</a>                 |
| Director – Academy for Physician Scientists | David Huston, PhD<br><a href="mailto:dhuston@tamu.edu">dhuston@tamu.edu</a>                    |

## **1. Introduction**

This booklet summarizes the requirements for the completion of graduate degree requirements (Ph.D. and M.S.) in Medical Sciences through the College of Medicine Interdisciplinary Graduate Program. The Interdisciplinary Graduate Program offers specialization in the following areas:

**Cancer, Cell, and Developmental Biology.** Research related to the regulation of development, including processes dysregulated in cancer, such as control of cell cycle, cell survival and cell death; the role of innate and adaptive immunity in cancer and immunotherapy, molecular and cellular mechanisms of cancer initiation and pathogenesis; metabolic dysregulation in cancer, lymphatics in cancer progression; and design and application of mouse models of human cancer.

**Infection, Immunity, and Inflammation.** Research related to infection and subsequent host response; innate and adaptive immunity; inflammatory responses; genetic evaluation of virulence that affect colonization of tissues and systems; disease pathologies related to inflammation and immune dysfunction; e.g., diabetes, neurodegenerative disease; mesenchymal stem cells differentiation for immune function and wound healing.

**Brain, Behavior, Psychiatric, and Neurological Disorders.** Research related to normal neural development and neuro-developmental disorders, behavior, adaptation to injury and disease, psychiatric disorders.

**Cardiovascular, Lymphatic and Metabolic Disease.** Research related to the investigations of cardiac function, blood vessel circulation of organs; lymphatic vessel physiology, lymphatic control of inflammation and immune responses; underlying pathophysiology of obesity, diabetes, aging, heart disease, hypertension, lymphedema, inflammatory bowel disease, kidney and liver injury, eye conditions, and cancer.

**Genetics, Genomics and Network Biology.** Research using model organisms to study physiology in health and disease; quantitative, systems-based approaches to gain insight into the molecular, cellular and biochemical networks that underlie biological phenomena.

**Biomedical Engineering and Regenerative Medicine.** Research that explores the potential of somatic stem cells to ameliorate and cure a broad range of diseases.

More information about these Research Areas, and the COM faculty associated with each, can be accessed at the Research Area Focus link: <https://medicine.tamu.edu/research/index.html>

## **Overview of the Program**

The Medical Sciences graduate program provides students with experimental research and/or formal coursework leading to the M.S. or Ph.D. degree. Students are expected to demonstrate professional level knowledge and research skills as demonstrated through their resulting work. The curriculum provides a broad-based foundation for students in the Medical Sciences graduate program through coursework. Early on students will identify an Advisor and then assemble an Advisory Committee. Subsequently, students complete their formal coursework, pass a preliminary examination (Ph.D.), conduct an independent research project (Ph.D. and M.S. Thesis Option), and prepare a thesis (M.S. Thesis Option), or dissertation (Ph.D.), and successfully pass a Final Examination (all programs). It is expected that research worthy of a Medical Sciences degree will constitute a significant contribution to the field in general. Evaluation of the quality and quantity of the student's scholarly works will be the responsibility of the student's Advisory Committee. Details and specific stages are discussed in the following sections, and more detail can be found in the Graduate Catalog available online through the Office of Graduate and Professional Studies

(OGAPS) <http://ogaps.tamu.edu/>.

### **Graduate Student Organization (GSO)**

The goal of the Texas A&M College of Medicine Graduate Student Organization (GSO) is to encourage student participation in the affairs of the College of Medicine, Life Sciences Graduate programs of Texas A&M University, and the Texas A&M University system. The GSO strives to promote communication and community between the administration, the student bodies, and TAMU system schools. It also seeks to enhance the quality and scope of our research education, professional development, and intellectual advancement. Membership to the GSO is automatic upon admission to the COM Medical Sciences Graduate Program. Officers are elected annually by the student body.

In order to progress in our mission, the GSO officer team serves as the voice of the graduate student body of COM and interacts with faculty and administrative representatives of the HSC and TAMU to optimize participation in the events and programs held throughout the year. The core officer team consists of an annually elected President, Vice President, Treasurer, Secretary, Community Outreach Chair, and Social/Media Chair. The GSO has officer representatives on committees such as the Graduate Instructional Committee (GIC), Graduate Program Executive Committee (GPEC), Graduate Admissions/Recruitment Committee (GAC), Diversity and Inclusion Committee (D&I), Graduate & Professional Student Government (GPSG), Student Governing Body (SGB), Anti-Racism Taskforce (ART), Learning Environment Enrichment Committee (LEEC), Gender Bias Taskforce, and others. We believe our involvement in these committees is valuable to the progressive improvement of our school and program and we are eager to provide service to these organizations.

In addition to serving on administrative committees, the Bryan/College Station and Houston campus GSO officers host an annual symposium showcasing graduate student and post-doctoral research at COM, historically taking place each spring semester. The GSO is also charged with coordinating the Graduate Student Roundtable seminars, organizing the bi-annual Robert and Annabelle Bruce Travel Award, and hosting a variety of social events throughout the year.

### **Robert and Annabelle Bruce Travel Award**

The Robert and Annabelle Bruce Travel Award has been established in the spirit of both recognizing outstanding work by College of Medicine graduate students and contributing to their professional development. The purpose of this travel award is to promote the attendance of COM graduate students at scientific meetings by providing them with financial aid. Typically, awards will be distributed each Fall and Spring semester. Awards may only be used for expenses related to travel to the conference, including accommodations, transportation, registration/abstract fees, or poster printing. Selection is based on scientific merit, as well as participation in GSO sponsored career development events (e.g. attendance at the Graduate Student Roundtable meetings – see below). Funds may not be used for expenses unrelated to travel or to pay society dues. More information regarding the eligibility and grading rubric can be found [online](#).

# **Requirements for Ph.D. Degree**

## **2. Yearly Steps to Fulfill Doctoral Degree Requirements**

### **Year 1 – Fall Semester**

- Meet with MSCI Graduate Program Advisory Committee during the first semester for guidance on research laboratory placement
- MSCI 601 Advanced Cell Biology (5 credits)
- MPHY 624 Biostatistics (2 credits; or equivalent biostatistics course)
- MSCI 609 Responsible Conduct of Research (1 credit)
- MSCI 691 Research (1 credit for 3 lab rotations; Pass/Fail)
- Complete 3 five-week lab rotations by the end of the semester. Lab rotation forms must be submitted before rotations are initiated.

### **Year 1 – Spring Semester**

- Choose Research Advisor – Submit [Laboratory Acceptance letter](#) to the Office of Graduate Studies (OGS).
- Elective coursework
- MSCI 691 Research (if needed to reach the required 9 credits)
- Start Research Project

### **Year 1 – Summer Semester**

- MSCI 685 Writing a Pre-Doctoral Fellowship Application (2 credits)
- MSCI 681 Seminar (1 credit; attendance required)
- MSCI 691 Research (if needed to reach the required 6 credits)
- Finalize Dissertation Advisory Committee Members
- Create an Individual Development Plan (IDP)

### **Year 2 – Fall Semester**

- Elective Coursework
- MSCI 691 Research (if needed to reach the required 9 credits)
- File Degree Plan

### **Year 2 – Spring Semester**

- Elective Coursework
- MSCI 691 Research (if needed to reach the required 9 credits)
- Meet with Dissertation Advisory Committee
- Plan, schedule, and complete the [Preliminary Examination](#) (**hard deadline** in Fall of Year 3)

### **Year 2 – Summer Semester**

- Elective Coursework
- MSCI 691 Research (if needed to reach the required 6 credits)
- MSCI 681 Seminar (1 credit; present works in progress)
- Plan, schedule, and complete the [Preliminary Examination](#) (**hard deadline** in Fall of Year 3)

### Year 3 – Fall Semester

- Elective Coursework (if not already completed)
- MSCI 691 Research
- **Preliminary Examination** - Preliminary Examinations are encouraged to be taken in the Spring or Summer of Year 2 but **must be completed** by the end of this semester
- File Research **Proposal** to OGAPS by the end of the semester
- Admission to Candidacy following successful passing of the Preliminary Examination

### Year 3 – Spring Semester

- Elective Coursework (if necessary)
- MSCI 691 Research
- Meet with Dissertation Advisory Committee

### Year 3 – Summer Semester

- Elective Coursework (if necessary)
- MSCI 691 Research
- MSCI 681 Seminar (1 credit; attendance required)

### Year 4/5 – Fall Semester

- Elective Coursework (if necessary)
- MSCI 691 Research

### Year 4/5 – Spring Semester

- Elective Coursework (if necessary)
- MSCI 691 Research
- Meet with Dissertation Advisory Committee

### Year 4/5 – Summer Semester

- Elective Coursework (if necessary)
- MSCI 691 Research
- MSCI 681 Seminar (1 credit; present works in progress year 4 only, year 5 attendance required)
- Final Defense and Final Examination: **Must submit request to OGAPS no less than 10 days prior to scheduled examination/defense date.**

### **Academic Requirements**

Successful completion of the Ph.D. degree requires 96 credit hours beyond a baccalaureate degree or 64 credit hours beyond a Master's or professional degree. For the Medical Sciences Ph.D. program, **8 graded credit hours** are taken in the first semester of training. Subsequently, an additional **18 graded credit hours** will be required for a **total of 26 graded credit hours to graduate**. This represents the **minimal** amount required for a Ph.D. MSCI graduate. Some latitude is possible, however, between formal course hours and research hours. Consult the Assistant Dean of Graduate Studies for specific cases. Full-time graduate students supported by Graduate Assistantships must enroll in a minimum of 9 credit hours for Fall and Spring semesters and 6 credit hours for the Summer semester (either 6 hours for the 10-week session or a combination of hours for both 5-week sessions). Students are



required to remain in good academic standing with a minimum average GPA of 3.0. Failure to maintain this standard will result in the student being placed on academic probation, potential loss of stipend, and possible dismissal. In addition to the formal graded coursework, students are required to maintain adequate progress in their research endeavors and to participate in departmental functions such as seminars, journal clubs, lab meetings, present at national meetings and conferences, and other professional activities.

### **Coursework Requirements**

- MSCI 601 Advanced Cell Biology (5 credits), MPHY 624 Biostatistics (2 credits, or equivalent statistics course), MSCI 609 Responsible Conduct of Research (1 credit), and MSCI 691 Research (1 credit, Pass/Fail for 3 five-week lab rotations). To be taken in the Fall semester of the 1<sup>st</sup> year.
- IBT students, except 1<sup>st</sup> year students, are required to take IBST 681 Seminar Medical Sciences, which is held in the Fall & Spring Semesters. Students are required to report on 4 seminars per month during the semester. Once students complete/pass the Preliminary Exam, they will only be required to report on 1 seminar per month during the Spring/Fall semesters.
- 1st year PhD students are exempt from taking IBST 681 Seminar-Medical Sciences course their 1st year.
- IBT students are required to take IBST 605 – “Biomedical Research of Professional Development” class held in the Fall or Spring semester, until they have passed their Preliminary Examination.

### **Graduate Student Roundtable**

The goal of the Graduate Student Roundtable is to allow graduate students to meet with each other and the Assistant Dean of Graduate Studies in an informal format to discuss the program and integrate professional development through career talks and student resource seminars. This seminar series focuses on exploring career options after graduate school and provides opportunities to network with professionals within those fields of interest. The Graduate Student Roundtable meets the last Friday of each month at noon and lunch will be provided. The students will have the chance to suggest topics before each roundtable, and the GSO officer team will coordinate with the Office of Graduate Studies to host speakers, either in-person or virtually. A portion of time at the beginning of each roundtable is devoted to announcements, questions, suggestions, and discussion from the students. Participation from all trainees (graduate students and post-docs) is highly encouraged. Attendance at the Graduate Student Roundtables counts towards the participation component of the Robert and Annabelle Bruce Travel Award and will be evaluated as part of the award application.

The goal is to enhance dialogue between students and the Graduate Program leadership as issues arise. An additional goal is to empower students to provide input into the Graduate Program to meet their career needs.

### **Residence Requirement for Degrees Awarded by the Texas A&M Health Science Center**

A major purpose of the residence requirement for graduate study is to ensure the advantages of the University environment. These activities include, among others, accessibility to libraries, laboratory experiences, seminars, and colloquia presented by faculty and other professionals, as well as cultural events. The requirement also provides the faculty the opportunity to properly evaluate the student and their development, to guide and direct studies, and to determine competency. The majority of credits toward a graduate or post-baccalaureate professional degree must be earned through Texas A&M University. The Assistant Dean of Graduate Studies may

consider exceptions to this policy under special circumstances. Please see the student rules in the [Graduate Catalog](#) for details.

## **Progress Towards the Ph.D. Degree**

### **Year 1**

#### **Role of the Advisory Committee**

Each incoming student will have a COM Faculty Advisor who will aid the student in navigating issues encountered in the Fall semester, focusing mostly on helping the student select lab rotations and a research laboratory to conduct their dissertation research. Questions about policies, procedures, and program requirements should be directed to the COM Assistant Dean of Graduate Studies. First semester courses are set for incoming students and are not discipline-specific in scope. Once a Research Advisor is identified, academic advisement (i.e., course selection) becomes the responsibility of the Research Advisor.

#### **Individual Development Plan (IDP)**

The IDP is a tool that allows you to identify and map your career goals. The IDP will assist you with:

- Identifying the your skills, interests and values
- Developing an IDP customized to your needs
- Identifying, clarifying, and committing to goals based on your priorities and professional goals
- Creating and developing strategies for goal achievement
- Tracking progress toward your goals
- Understanding, evaluating, and strengthening your technical and non-technical competencies
- Practicing confidently discussing strategies for aligning expectations with those of your supervisor
- Making the most out of a recent promotion, job opportunity, or other developmental prospect
- Analyzing alternatives and solutions

Every Summer, you are required to report to the Office of Graduate Studies a report of your updated IDP, and discuss it with the Assistant Dean of Graduate Studies in a one-to-one meeting.

#### **First Year Curriculum**

The first year, particularly the first semester, is directed primarily towards meeting the core course requirements of the Medical Sciences PhD Degree Program. For the Fall semester these are MSCI 601 (5 credits), MPHY 624 (2 credits, or equivalent), MSCI 609 (1 credit), and MSCI 691 (1 credit, Pass/Fail). Evidence of a strong Biostatistics background may grant an exemption from the Biostatistics requirement as determined by the Assistant Dean of Graduate Studies. Once a student joins a research laboratory in the Spring semester, the Research Advisor will help to develop a curriculum that fits the needs of their intended research project.

#### **Laboratory Rotations - Choosing a Research Advisor**

Students should select a Research Advisor following 3 independent five-week research rotations. More rotations are possible if a laboratory has not been identified after the 3 rotations. The laboratory rotations provide the student an opportunity to become acquainted with the research program of a laboratory, interact with the current graduate students, postdoctoral fellows, and staff within that group, and acquaint themselves with specific laboratory techniques of that research team.

**Students are encouraged to contact faculty members individually to discuss specific projects and research opportunities in each lab. Rotation Forms should be completed and returned to the Graduate Office after deciding the labs in which the student will rotate.**

During rotations, it is the student's responsibility to arrange sufficient time to participate fully in lab activities. Typically, this will include discussions with the faculty member, contribution to ongoing research projects, attendance at lab meetings, and acquisition of specific technical skills specified by the faculty member. By the end of the Fall semester of the 1<sup>st</sup> year, the student should be prepared to make a final decision regarding a choice of Research Advisor. When choosing faculty to rotate with, it is important to ask the individual faculty members if they are planning to take students that year and also whether he or she has available funding. Faculty members are not obligated to take students into their programs and may be unable to do so due to lack of space, funding, or time constraints. **It is the student's responsibility to initiate discussions with faculty members about the availability of research positions in laboratories.**

### **Finalizing Lab Choice**

A [lab acceptance memo](#) should be submitted from the Research Advisor to the Graduate Office through the Department/Academic Unit Head stating their funding availability and willingness to accept this student. This agreement will be completed and to the Assistant Dean of Graduate Studies.

### **Dissertation Advisory Committee Structure**

Each student is required to form an Dissertation Advisory Committee that will oversee the student's progress toward the Ph.D. degree. Members of the Dissertation Advisory Committee will be determined by the student in consultation with the Research Advisor. The Dissertation Advisory Committee should be formed no later than the end of the Summer semester of the 1<sup>st</sup> year. After it is set up, the Dissertation Advisory Committee is required to meet with the student at least once annually to review the student's progress ([Form](#)). **Failure to do so may result in the student being blocked from registering. It is highly recommended that the student and Dissertation Advisory Committee meet each Fall and Spring semester to assess progress.** The committee will consist of no fewer than 4 faculty members, one of which will be the student's Research Advisor. The Research Advisor will be the chair of the committee unless the advisor is not a member of the College of Medicine Graduate Committee Faculty. In that case, a member of the College of Medicine Graduate Committee Faculty must serve as co-chair and must approve the committee membership. ***At least one of the committee members should be from a department other than the home department of the student and Research Advisor.*** The composition of the committee should be in accordance with OGAPS guidelines.

The committee members' signatures on the Degree Plan indicate their willingness to accept the responsibility for guiding and directing the entire academic program of the student and for initiating all academic actions concerning the student. Individual committee members may be replaced by petition for valid reasons on a case by case basis. The student, with endorsement of the chair of the committee, who usually has immediate supervision of the student's research and dissertation or record of study, will contact the committee and call annual meetings. The duties of the committee include responsibility for the proposed Degree Plan, the Research Proposal, the Preliminary Examination, the Dissertation or record of study, and the Final Examination. In addition, the committee, both as a group and as individual members, is responsible for counseling the student on academic matters, and, in the case of academic deficiency, initiating recommendations to the Office of Graduate and Professional Studies.

## Year 2

### **Degree Plan**

Students are required to file a [Degree Plan](#) with the Office of Graduate and Professional Studies (OGAPS). The Degree Plan lists the courses, including research hours, which the student will complete as part of the Ph.D. degree. The total hours listed for a Ph.D. degree should equal 96 unless the student has a M.S. or professional degree in which case the hours listed should total 64. This proposed Degree Plan will be submitted through the online Document Processing Submission System located at [ogsdpss.tamu.edu](http://ogsdpss.tamu.edu). Students must consult with their Research Advisor about the content of the proposed Degree Plan prior to initiating the electronic submission. The Degree Plan will be electronically routed for approval by the Program Coordinator, Dissertation Advisory Committee and the Assistant Dean of Graduate Studies, prior to submission to OGAPS. The Degree Plan must include **26 credit hours of graded coursework**, with the remainder being research credit hours. In reviewing the coursework necessary for the degree, no more than 4 distance education courses can be taken. **The Degree Plan should be filed during the second year of study, Fall Semester.** Any changes in the Degree Plan require approval of the Program Coordinator, Dissertation Advisory Committee and the Assistant Dean of Graduate Studies, and must be petitioned through OGAPS Document Processing Submission System accessed via [ogsdpss.tamu.edu](http://ogsdpss.tamu.edu).

### **Preliminary Examination**

Students should *begin* to plan, schedule, and possibly complete the Preliminary Examination along with their Dissertation Advisory Committee. The specific format of the Preliminary Examination is described below. **IT IS SUGGESTED THAT THE PRELIMINARY EXAM BE COMPLETED IN THE SPRING SEMESTER OF THE SECOND YEAR OR THE SUMMER BETWEEN THE SECOND AND THIRD YEARS. THE PRELIMINARY EXAM *MUST* BE COMPLETED BEFORE THE END OF THE FALL SEMESTER OF THE THIRD YEAR.**

Preliminary Examinations are to ensure that students have a strong general foundation in the basic medical sciences and sufficient understanding of their specific research area to proceed with their dissertation work. The Preliminary Examination will have both a written and oral component.

**The current *minimal recommendation* for the Preliminary Examination format is the following:**

- 1. The Written component will require the production of an NIH F31 Pre-Doctoral Fellowship proposal (1 page Specific Aims and 6 pages of Research Strategy) related to the student's research *and***
- 2. An Oral Examination defending the grant application to be done within 2 weeks after submission of the Written component to the Dissertation Advisory Committee.**

**For the Oral Exam, students should prepare <30 slides to guide the Dissertation Advisory Committee through the proposed Aims.**

### **Other options:**

The Dissertation Advisory Committee can recommend additional parameters for the Preliminary Exam at their discretion. Please note that these options do **not** replace the Research Proposal requirement.

**Deviations from the NIH F31 format will need to be justified by the student's Dissertation Advisory Committee and approved by a majority vote of the GPEC and Assistant Dean of Graduate Studies.**

**PLEASE NOTE** that the **Written component of the Preliminary Examination should serve as the Research Proposal that will be filed with OGAPS (see below for details).**

Prior to scheduling the Preliminary Examination with the other Dissertation Advisory Committee members, the committee chair will review with the student eligibility criteria, using the [Preliminary Examination Checklist](#) to ensure the student is ready for the Preliminary Examination. The following list of eligibility requirements applies:

- An approved Degree Plan was on file with the Office of Graduate and Professional Studies at least 90 days prior to the first Written portion of the Preliminary Examination.
- Student's cumulative GPA is at least 3.00.
- Student's Degree Plan GPA is at least 3.00.
- All English language proficiency requirements have been satisfied.
- All committee members have received the Written component and agreed to attend the Oral Exam or have found a substitute. Only one substitution is allowed and it cannot be for the committee chair.
- At the end of the semester in which the exam is given, there are no more than 6 hours of coursework remaining on the Degree Plan (except 681, 684, 690, 691, and 692).
- The time span from when the Dissertation Advisory Committee received the Written component to the Oral Exam is **no more than 2 weeks.**

The chair of the Dissertation Advisory Committee will promptly report the results of the Preliminary Examination to the COM Office of Graduate Studies, using the [Report of the Preliminary Examination](#) form. Both forms must have the original signatures of each Dissertation Advisory Committee member and the Assistant Dean of Graduate Studies. These forms need to be submitted by the Assistant Dean of Graduate Studies to the Office of Graduate and Professional Studies within 10 working days of the Preliminary Examination.

After passing the required Preliminary Examination for the Ph.D. degree, the student must complete the Final Examination for the degree within 4 calendar years. Otherwise, the student will be required to repeat the Preliminary Examination.

## Year 3

### **Preliminary Examination**

If not yet completed, the Preliminary Examination **MUST** be done ***before*** the end of the Fall semester of the third year.

### **Research Proposal**

As a part of the Preliminary Examination, a written component based on the student's research in the form of an NIH F31 application is submitted to the Dissertation Advisory Committee and assessed. This document can and should serve as the **Research Proposal**.

The Research Proposal should include relevant background information and sufficient description of the experimental approaches so that the merit and feasibility of the project can be evaluated. The proposal must be approved by the Dissertation Advisory Committee and the Assistant Dean of Graduate Studies, after approval of the Dissertation Advisory Committee. **The completed proposal should be approved and submitted to OGAPS by the COM Office of Graduate Studies, along with the [Proposal Approval Form](#), no later than the end of the Fall semester of the 3<sup>rd</sup> year consistent with the completion of the Preliminary Examination.**

The Research Proposal is a description of proposed research and defines the scientific problem to be studied for the dissertation research. There is no requirement or expectation that a Research Proposal will contain significant preliminary data.

Students should refer to examples of successful F31 Research Plans provided by the NIH: <https://www.niaid.nih.gov/grants-contracts/three-new-f31-sample-applications>, as well as guidance for writing the Research Plan: <https://www.niaid.nih.gov/grants-contracts/write-research-plan>.

**The final copy of the proposal should be at most 7 pages, single-spaced (not including References). Proposals should be organized according to NIH F31 Grant Guidelines and include the following:**

**1. Project title**

**2. Specific Aims (one page)**

The Specific Aims answer the question "What do you intend to do?". The proposal should state the broad, long-term objectives and list concisely and realistically what the specific research described in this application is intended to accomplish and the hypotheses to be tested.

**3. Research Strategy (6 pages)**

The Research Strategy is a description of the rationale of the research project and the experiments you propose to accomplish each. It has the following main sections:

- a) Significance – **should answer the questions "What has already been done?" and "Why is the work important?"** (e.g. for human health, or for advancing your field)?
- b) Innovation – how is your research new or unique? Do you have a novel hypothesis, or what gaps in knowledge will your project address? Does your research challenge the status quo or establish new paradigms? Do you use novel research/experimental designs or new models?
- c) Approach – Explain how you will do the work. **There are many ways to organize**

**this section (see examples).** Students may use figures and diagrams to explain the background material or how certain kinds of experiments will be performed. Clearly outline the experimental design and the procedures to be used to accomplish the Specific Aims of the project. **Do not** provide detailed descriptions of protocols used. Rather, you should focus on how the data will be collected, analyzed, and interpreted. Describe any new methodology and its advantage over existing methodologies. Discuss the potential difficulties and limitations of the proposed procedures and alternative approaches to achieve the Aims. Provide a tentative sequence or timetable for the investigation. The inclusion of Preliminary Data is encouraged to support feasibility, but it is not required.

#### **4. Literature Cited**

Use references to support statements or concepts. References should be listed at the end of the proposal. Each citation must include the names of all authors, the title of the article or book, the name and volume number of the journal, page numbers, and year of publication. The list should be relevant and current; it need not be exhaustive. Students are expected to have read and understood all, or the pertinent parts, of each reference listed. References may be organized in any consistent fashion; for example, list in order of appearance and number consecutively in the text, or cite the authors in the text and list the references alphabetically by author. ***This section is not included in the 7-page limit.***

#### **Seminars and Journal Club Participation**

All students are required to attend appropriate seminars and Journal Clubs. This includes presentation of literature and research in these forums. Each student should refer to their Research Advisor for expectations concerning seminar presentation attendance and participation in departmental journal clubs.

**All students are also required to attend a minimum of 1 seminar presented by the COM CST\*R Grand Rounds and by the Diversity and Inclusion Committee (D&I) each semester.** It is the responsibility of the student to ensure their attendance to these seminars is recorded for eligibility for Travel Awards.

Each Summer semester the student will register for MSCI 681 Seminar for 1 credit and will present their research goals (Year 2) and research progress (Year 4). The student will get MSCI 681 Seminar 1 credit for attending >80% of the seminar series in the summer in Years 1, 3 and 5. MSCI 681 Seminar will be graded as S/U.

#### **Admission to Candidacy**

To be admitted to candidacy for a Ph.D. degree, a student must have: (1) **completed all formal coursework on the Degree Plan** with the exception of any remaining 681, 684, 690, and 691; (2) a 3.0 Graduate GPA and a Degree Plan **GPA of at least 3.0** with no more than two courses with a grade of C in any course on the Degree Plan; (3) **passed the Preliminary Examination** (written and oral portions); (4) submitted an approved **Research Proposal**; and (5) met the **residence requirements**. Students will receive a \$1000/yr stipend increase starting the date of their admission to candidacy. It is the student's responsibility to initiate the stipend increase with their Research Advisor. The Final Examination will not be authorized for any Ph.D. student who has not been admitted to candidacy.

#### **Dissertation Research**

The dissertation work must be the original research performed by the candidate. With the council of the Research Advisor and the student's Dissertation Advisory Committee, the candidate will

work on the research project until such time as the scholarly merit has been met. This will vary depending upon the research topic, but it is the student's responsibility to present and discuss the research with the Research Advisor and the Dissertation Advisory Committee, both formally and informally, so there is an assessment of progress. It is the responsibility of the Research Advisor and Dissertation Advisory Committee to determine when the research goals are met and to proceed with writing the dissertation.

### **Publications**

In addition to the dissertation, each student is required to publish a single, first-authored paper at a minimum. The manuscript must be on their original research and cannot be in the form of a review. Further guidance on this requirement is provided in the **Appendix**. Please refer to this section for additional details.



## Year 4 to Completion

### **Final Examination**

Candidates for the Ph.D. degree must pass a Final Examination administered by their Dissertation Advisory Committee. The examination consists of 2 parts: 1) a public seminar where the student presents their research findings to an audience of faculty, students, and staff, and 2) an oral defense of the dissertation conducted by the Dissertation Advisory Committee in a private setting. As the Final Examination represents a culmination of the student's graduate program, all faculty and students are encouraged to attend the public seminar. The [request to hold and announce the final examination](#) must be submitted to OGAPS a minimum of 10 working days in advance of the scheduled date. Examinations/Defenses that are not completed and reported as satisfactory to OGAPS within 10 working days of the scheduled examination/defense date will be recorded as failures. OGAPS must be notified in writing of any cancellation.

The Dissertation Advisory Committee will submit its recommendations on the appropriate Report of the Final Examination for Doctoral Candidates form to OGAPS regarding acceptability of the candidate for the Ph.D. degree. A student must be registered in the University in the semester or summer term in which the Final Examination is taken. The Dissertation Advisory Committee will also submit to the Medical Sciences Graduate Program Office the [Graduate Student Annual Review Form](#).

### **Dissertation**

The dissertation is a scholarly document which presents the research findings of the student in the context of the field of study. The format of the document is directed by OGAPS and guidelines for the preparation of the document and the steps for completing the process can be found on the [OGAPS website \(see Step 10\)](#).

After successful defense and approval by the student's Dissertation Advisory Committee and the Assistant Dean of Graduate Studies, a student must submit his/her dissertation in [electronic format](#) as a single PDF file. The PDF file must be uploaded to the website, [ogaps.tamu.edu](http://ogaps.tamu.edu). Additionally, a signed approval form must be brought to the Office of Graduate and Professional Studies. Both the PDF file and the signed approval form are required.

Exam results must be submitted with original signatures of only the Dissertation Advisory Committee members approved by OGAPS. If an approved committee member substitution (1 only) has been made, his/her signature must also be submitted to OGAPS. The student should consult the academic calendar for the deadlines to schedule a defense for that semester and for the last day that a student can defend to qualify for graduation that semester.

## **Requirements for M.S. Degree**

The College of Medicine has established a Master of Science (M.S.) Degree in Medical Sciences. The curriculum for the M.S. Medical Sciences degree is designed to develop new understanding through research and originality. Students in the COM M.S. in Medical Sciences degree program should not expect financial support through the Research Office. The progression to the M.S. degree is well defined in the [Graduate Catalog](#) on the [OGAPS](#) website, and are summarized here. There are two options for the M.S. in Medical Sciences degree: Thesis and Non-Thesis.

**M.S. Thesis Option:** A minimum of 32 semester credit hours of approved courses and research is required for the Thesis Option M.S. degree. Students are required to take **14 graded credit hours** toward their degree. The thesis will need to be filed with the Advisory Committee and OGAPS and defense of the thesis will serve as the Final Examination.

**M.S. Non-Thesis Option:** A minimum of 36 semester credit hours of approved coursework is required for the Non-Thesis Option M.S. degree, and no research hours (MSCI 691) can be counted. Coursework will be chosen in support of the fields of the student's interest. A portfolio of classes taken, what the student learned, and an exit interview meeting with the Advisory Committee will serve as the Final Examination.

### **Degree Plan**

The student's Advisory Committee, in consultation with the student, will develop the proposed Degree Plan. **The Degree Plan must be completed and filed with OGAPS by the end of the first year, and no later than 90 days prior to the date of the Final Examination.** A student should submit the Degree Plan using the online Document Processing Submission System located on the website [ogsdpps.tamu.edu](https://ogsdpps.tamu.edu). A student submitting a proposed Degree Plan for a M.S. in Medical Sciences degree should designate on the official Degree Plan the appropriate program option. Additional coursework may be added to the approved Degree Plan by petition if it is deemed necessary by the Advisory Committee to correct deficiencies in the student's academic preparation. No changes can be made to the Degree Plan once the student's [Request for Final Examination](#) or [Request for Final Examination Exemption](#) is approved by OGAPS.

### **Advisory Committee**

The student's Advisory Committee for the M.S. in Medical Sciences degree will consist of **no fewer than 3 members of the Graduate Faculty**, representative of the student's fields of study and/or research. The chair or the co-chair of the Advisory Committee must be a graduate faculty from the College of Medicine, and **at least 1 or more of the members must have an appointment to a department other than the student's Advisory Chair department.** The Medical Science Graduate Program Executive Committee will select the remainder of the Advisory Committee. Only Graduate Faculty members located on Texas A&M University campuses may serve as chair of a student's Advisory Committee. Other Graduate Faculty members located off campus may serve as a member or co-chair (but not chair) with a member as the chair. The student in agreement with the chair of the Advisory Committee, has the responsibility for calling required meetings of the committee and for calling meetings at any other time considered desirable.

For more information on the M.S. in Medical Sciences Program, please refer to the [Graduate Student Catalog](#).

## **Graduate Student Excellence Awards**

The College of Medicine has established 2 awards to recognize the outstanding achievements of our graduate students in research and service to the school. Nominations are solicited each Spring semester by the COM Office of Graduate Studies and the selection process is carried out by the Graduate Instructional Committee. All Excellence awards are announced at the COM Graduate Research Symposium and commemorated with a plaque and monetary award.

### **Research Excellence Award:**

The Graduate Research Excellence Award is given each year to recognize exceptional research achievement by a graduating Ph.D. or M.D./Ph.D. student. The recipients will have demonstrated independence, creativity, and significant productivity in their graduate research with a high potential for success in a future research career. In addition, recipients will have demonstrated high standards in professionalism, scientific ethics, and contributions to the graduate program. The award was created in 2005.

#### **Eligibility:**

- 1) Must be a COM graduate student receiving a Ph.D. or an M.D./Ph.D. in Medical Sciences.
- 2) Must have completed all requirements for the degree during one of the semesters in the 12 months prior to spring commencement (summer, fall, or spring).
- 3) Must be nominated by your Research Advisor.
- 4) The Research Excellence award may only be received once.

### **Excellence in Service Award:**

The Graduate Service Excellence Award will be given each year to recognize an outstanding student who has gone above and beyond the calling of academic research to provide selfless service within their graduate program or the College of Medicine. Recipients will have demonstrated strong involvement within the following 6 categories: Leadership, Mentoring, Community, Diversity, Outreach, and/or Programmatic Improvement. In addition, recipients will have demonstrated high standards of professionalism and academics. This award was created in 2020.

#### **Eligibility:**

- 1) Must be a current COM graduate student seeking a degree through the Ph.D., M.D./Ph.D., M.D.+ , E.D.H.P., or M.S. in Medical Sciences programs and have completed at least 1 year of the graduate program requirements.
- 2) Must be in good standing and have achieved the basic milestones for their respective program.
- 3) Must have demonstrated a strong record of involvement within their graduate program and service to the COM vision.
- 4) May be nominated by a COM Graduate Faculty member, COM staff member, or COM student; up to 2 additional letters of support which provide insight to the nominee's breadth of service may also be added to the student's nomination packet.
- 5) The Service Excellence award may only be received once.

## **ADDITIONAL POLICIES AND PROCEDURES**

**Students Entering with Advanced Degrees:** students entering with an M.S., M.D., or D.V.M. from a U.S. institution are required to complete 64 rather than 96 credit hours, where **15 graded credit hours** will be coursework and the remainder research credit hours. Students with advanced degrees from outside the U.S. may be granted a similar reduction in hours required for the Ph.D. degree but must obtain approval from the Assistant Dean of Graduate Studies.

**Transfer Credits:** Up to 12 hours may be transferred with approval by the Dissertation Advisory Committee and the Assistant Dean of Graduate Studies. Grades for courses completed at other institutions are not included in computing the GPA. An official transcript from the university at which transfer courses are taken must be sent directly to the Office of Admissions.

**Petitioning to Waive Required Classes:** A letter should be written from the student, through the Research Advisor to the Assistant Dean of Graduate Studies and delivered to the COM-Office of Graduate Studies (8447 Riverside Pkwy, Suite 1000, Bryan, TX 77807).

**Stipend:** The College of Medicine will provide stipend support for first-year and possibly second-year Ph.D. graduate students; this arrangement will be indicated in the offer letter. No such support is provided for M.S. graduate students. Beyond the indicated period of stipend support, stipend support will be the obligation of the student's Research Advisor. Students will get a raise in the amount of \$1000/year, after they become candidates. Minimum stipend levels for each year will be set by the Graduate Program Executive Committee in consultation with the Assistant Dean for Graduate Studies. Students will be notified annually of the stipend amount.

**Academic Standing:** Maintaining a 3.0 GPA is considered to be satisfactory academic standing. If a student falls below this minimum, the student will be under scholastic probation and will be given up to a year to achieve satisfactory standing. If the student fails to meet satisfactory academic status at the end of this time, loss of stipend or **dismissal from the program may be recommended by the GPEC and/or the Assistant Dean of Graduate Studies.**

**Absence During the Semester:** Students are obligated to inform the program if, for any reason, they are unable to participate in classes, rotations, or other programmatic activities for any significant time (typically more than 1 day). In such cases, the student should notify the student's Advisor or the Assistant Dean of Graduate Studies.

**Leave Policy:** If a leave over 2 weeks is requested for any reason, the student must receive approval from their Advisor and file a written request for the leave with the COM Office of Graduate Studies. If the student has not committed to a laboratory, the written request must be approved by the Assistant Dean of Graduate Studies. Requests are narratives (memos) that explain the reason for the leave and include the dates the student is requesting to be absent. The request must be signed by the student's Advisor. In case of disputes over leave, please contact the Assistant Dean of Graduate Studies. Once the program request is filed and approved by OGAPS, the student fills out a leave petition with OGAPS (<https://ogsdpss.tamu.edu/>) that must be approved before the student initiates the leave. Students on leave are not eligible for stipend support.

In the event that a leave unexpectedly extends beyond 2 weeks, the student must immediately notify their Advisor and the COM Office of Graduate Studies. The Advisor may recommend enrollment in the TAMU Graduate Continuous Enrollment course (CRN 21514 - TAMU 999-350)

for 0 credit hours and withdrawal from any courses in which the student had enrolled prior to the leave. Only OGAPS officials may enroll the student in the continuous enrollment course (suggested contact, Russell Ramirez, Assistant Director, Graduate Records Processing Office of Graduate and Professional Studies; [rramirez@tamu.edu](mailto:rramirez@tamu.edu)). At the discretion of the Advisor, the student may be placed on leave without pay (LWOP) and may be responsible for any possible tuition costs for possible online courses completed during the leave. If the student has not committed to a laboratory, the student may choose to be enrolled in the TAMU 999 course and withdraw from other courses. Students on LWOP are not eligible for stipend support. Additionally, students will be responsible for tuition costs during the LWOP.

**Improper Consensual Relationships:** System policy 07.05.01 defines an improper consensual arrangement as “a mutually agreeable amorous, romantic, and/or sexual relationship between ...an employee and a student” where the employee has authority over the other individual. Such relationships between graduate students and their mentor **OR** a graduate student and an undergraduate students that they supervise are highly discouraged, and if they occur, the faculty person **MUST** report this to their immediate supervisor. Further information regarding this restriction is found here: <https://policies.tamus.edu/07-05-01.pdf>

## **Student Resources**

### **Office of Graduate Studies**

Visit our website for more information on all programs, department contacts, activities, etc.  
<https://medicine.tamu.edu/degrees/index.html>

### **Registrar**

The Office of the Registrar has the responsibility to maintain and store student records. Importantly, this office is the contact for degree audits and for transcripts.

979-845-1031  
Suite 1501 of the General Services  
Complex <http://registrar.tamu.edu>

|                |                |
|----------------|----------------|
| Degree Audit   | (979) 845-1089 |
| Records        | (979) 845-1003 |
| Registration   | (979) 845-7117 |
| State Policies | (979) 845-1085 |
| Transcripts    | (979) 845-1066 |

### **Financial Aid**

The Office of Financial Aid has the charge to provide students with information and resources to attend Texas A&M University.

979-845-3236  
Pavilion 2nd floor  
[financialaid@tamu.edu](mailto:financialaid@tamu.edu)

### **Student Business Services**

Student Business Office is dedicated to helping each student manage their financial obligations to Texas A&M University.

979-847-3337  
Suite 2801 General Service Complex  
[sbs@tamu.edu](mailto:sbs@tamu.edu)

### **Office of Graduate and Professional Studies (OGAPS)**

OGAPS serves the Texas A&M Graduate and Professional student community. They have many programs to facilitate interdisciplinary research and helps graduate students with career development. Their website has links to calendars and deadlines, forms, tuition information, the graduate catalog, and student life.

979-845-3631  
112 Jack K. Williams Administration Building  
[ogaps@tamu.edu](mailto:ogaps@tamu.edu)  
<http://ogaps.tamu.edu>

### **International Student Services**

Assistance with visas, ELPE information, legal issues, writing center, etc. See their website for

a full list of resources.

<http://iss.tamu.edu/>

979-845-1824

1<sup>st</sup> floor Bizzel Hall East

### **Student Services**

Texas A&M University offers a variety of services such as student counseling services, housing services, disability services, a career center, and recreational activities. See their website for a full list of resources available to you that are included with your tuition at no additional cost.

<http://www.tamu.edu/current-students/index.html>.

Students are also eligible for the Employee Assistance Program (EAP) which offers counseling and providers for certain medical issues, legal problems, and general work-life issues.

<https://employees.tamu.edu/eap/>.

### **Learning Environment Awareness System**

As an institution of medical education, Texas A&M College of Medicine's (COM) mission is to improve the health and well-being of the people of Texas through excellence in education, research and health care delivery. Our vision is to develop the innovators and leaders in medicine and biomedical research who will transform American medicine in the 21<sup>st</sup> century. With our mission and vision at the forefront, the following Learning Compact serves as a pledge and reminder of the mutual commitment of the members of our community (faculty, staff, residents, and students) to create a dynamic learning environment that fosters the acquisition of knowledge, skills, and attitudes critical to promoting excellence in medical practice. More specifically, it is the conduct of our members that serves as the medium through which the medical profession perpetuates its standards and inculcates its ethical values.

The Learning Environment Awareness System outlines the approach of the Learning Environment Enrichment Program (LEEP) to increase institutional awareness of exemplary and concerning behavior in as close to "real time" as possible within the College of Medicine. Once a report is submitted, it promptly moves through a collaboratively developed process. In general, the reporting, or awareness, process consists of: 1) submitting a report; 2) the report is immediately directed to a rapid response team; 3) the rapid response team collaboratively, and quickly, determines initial actions (e.g., peer messenger); and 4) an after action report is submitted and looped to a larger committee tasked with monitoring the learning environment. Concerns that related to Title VII, Title IX, or risk, fraud, and misconduct are separate from this process and directed the pertinent departments at Texas A&M University and Texas A&M University System. For more information regarding LEEP or how to report exemplary or concerning behaviors click [HERE](#).

### **Title VII, Title IX, Risk, Fraud, and Misconduct Reporting**

In addition to the College of Medicine's LEEP program, Texas A&M University has a separate online reporting mechanisms to report Title VII, Title IX, Risk, Fraud or Misconduct.

Title IX, as defined in the Education Amendment of 1972, prohibits discrimination on the basis of sex in educational programs and activities at institutions that receive federal financial assistance.

"Sexual harassment, including sexual violence, is a form of sex discrimination and is therefore prohibited under Title IX. Unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal or physical conduct of a sexual nature constitute sexual

harassment when this conduct is so severe, persistent or pervasive that it explicitly or implicitly affects an individual's employment, unreasonably interferes with an individual's work or educational performance, or creates an intimidating or hostile work or educational environment."

[More about Title IX at Texas A&M](#)

**If you think your submission relates to risk, fraud, and misconduct of a Texas A&M University system member**, please report this concern directly to the Texas A&M University System by clicking on the following link for more information: [How to report a risk, fraud, or misconduct concern](#)

**If you think your submission relates to Title VII (discrimination based on status as a protected group [race, ethnicity, gender identity, etc.])**, please report this concern directly to Texas A&M University by clicking on the following link for information: [Stop Hate](#)

**If you think your submission relates to Title IX (sexual harassment or sex-based discrimination)**, please [report this concern directly to the appropriate contact at Texas A&M University](#).

#### **NOTICE OF NON-DISCRIMINATION AND ABUSE**

*Texas A&M University is committed to providing a safe and non-discriminatory learning, living, and working environment for all members of the University community. The University provides equal opportunity to all employees, students, applicants for employment or admission, and the public, regardless of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity. Texas A&M University will promptly investigate and resolve all complaints of discrimination, harassment (including sexual harassment), complicity and related retaliation based on a protected class in accordance with System Regulation 08.01.01, University Rule 08.0.01.M1, Standard Administrative Procedure (SAP) 08.01.01.M1.01, and applicable federal and state laws.*



## **Appendix Materials**

### **I. Policy for Medical Sciences Ph.D. Student Support**

#### 1. Ph.D. students working for COM faculty:

The COM will provide stipend and tuition/fees support for the first 12-18 months of the student's enrollment in the program. Subsequent years will be the responsibility of the Research Advisor and the Research Advisor's department. Department Heads acknowledge this responsibility when signing off on the Student Acceptance Memo.

#### 2. Students working for faculty whose primary appointment is not in the COM:

The COM is not responsible for stipend support for students from other programs. The other programs may or may not provide support; this is program specific. If no such support is provided, the Research Advisor will be responsible for support. Payment of tuition/fees are covered for all Ph.D. students. Tuition and fee are NOT covered for M.S. students. If funding for any time is provided, once it expires stipend and tuition support become the responsibility of the Research Advisor and the Research Advisor's department. Department Heads acknowledge this responsibility when signing off on the Student Acceptance Memo.

## II.a. Laboratory Acceptance Memo – Ph.D.

### MEMORANDUM

**TO:** Carol Vargas-Bautista, Ph.D.  
Assistant Dean of Graduate Studies

**THROUGH:** \_\_\_\_\_  
Advisor's Department Chairperson

**FROM:** \_\_\_\_\_  
Faculty Advisor

\_\_\_\_\_ Date

This memo is to acknowledge that I will accept the responsibility of being an Advisor to \_\_\_\_\_ as they work towards their Medical Sciences Ph.D. degree. I understand that it is my responsibility to serve as the chair (or co-chair if I am not a College of Medicine faculty member) of the student's Dissertation Advisory Committee and to fulfill all the responsibilities of the chair as defined by the Office of Graduate and Professional Studies and the college's Graduate Program Executive Committee and the Graduate Instruction Committee (GIC). I will provide the resources for these studies and will advise and mentor the student in accordance with the requirements for the Medical Sciences Ph.D. program.

I also acknowledge the financial responsibility for this student including the stipend and benefits as set by the GIC. My stipend support for the student will begin on September 1, 20\_\_\_\_. I will also pay tuition and fees beginning with fall semester, 20\_\_\_\_, and I will budget for these items in future grants that would support the student. If for some reason, I am not able to meet these obligations, support of the student is the responsibility of my department, although assistance from the college's Office of Research and Graduate Studies can be requested.

**II.b. Laboratory Acceptance Memo – M.S.**

**MEMORANDUM**

**TO:** Carol Vargas-Bautista, Ph.D.  
Assistant Dean of Graduate Studies

**THROUGH:** \_\_\_\_\_  
Advisor’s Department Chairperson

**FROM:** \_\_\_\_\_  
Faculty Advisor Date

This memo is to acknowledge that I will accept the responsibility of being an Advisor to \_\_\_\_\_ as they work towards their Medical Sciences M.S. degree. I understand that it is my responsibility to serve as the chair (or co-chair if I am not a College of Medicine faculty member) of the student’s Advisory Committee and to fulfill all the responsibilities of the chair as defined by the Office of Graduate and Professional Studies and the college’s Graduate Program Executive Committee and the Graduate Instruction Committee (GIC). I will provide the resources for these studies and will advise and mentor the student in accordance with the requirements for the Medical Sciences M.S. program.

### **III. MSCI Publication Policy – GIC Approved 11/20/17 modified and approved by GPC 07/21/20**

For their dissertation, **Ph.D. graduate students** are expected to complete a research project of sufficient scope and breadth to constitute a significant contribution to their field of study. While the overall evaluation of the quality and quantity of the student's research is the responsibility of the student's Dissertation Advisory Committee, publication in peer-reviewed journals is the accepted standard for ensuring quality and adequate completeness of scientific studies. Such publication provides independent, outside review of the student's work to ensure that the dissertation results conform to the normative standards of scientific rigor and significance. In addition, successful publication during Ph.D. training is an important step of professional development that is often critical for advancing to subsequent scientific training. To maintain the highest quality of our MSCI training experience and to ensure that our Ph.D. graduates are effectively positioned for further training, the Graduate Program Executive Committee has implemented a publication requirement as outlined below:

- 1) Students must have at least 1 first-author publication published, accepted for publication/in press, or in minor revision status in a peer-reviewed journal before the final defense can be scheduled. Co-first-author publications are sufficient to satisfy this requirement, but review articles alone will not fulfill this requirement. Documentation of the publication or manuscript status should be provided to the Dissertation Advisory Committee and the College of Medicine Office of Graduate Studies prior to scheduling a defense.
- 2) An alternative to the above is that the complete Dissertation Advisory Committee certifies that an original research paper exists in an acceptable format for near future submission and publication. This certification must be provided to the College of Medicine Office of Graduate Studies prior to scheduling a defense.
- 3) There may be circumstances where a student has performed and completed an acceptable amount of research that would constitute a similar level but cannot meet the publication standard. In these instances the student or the chair of the student's Dissertation Advisory Committee should initiate a written appeal to the Dissertation Advisory Committee. The Dissertation Advisory Committee will review the appeal and submit a written opinion to the Graduate Program Executive Committee. A successful appeal will require a majority vote of the entire Graduate Program Executive Committee voting membership.

**Thesis Option M.S. graduate students** are expected to complete a research project and file a Thesis with OGAPS according to TAMU OGAPS requirements.

**Non-Thesis Option M.S. graduate students** are expected to produce a portfolio of courses and what they learned according to TAMU OGAPS requirements prior to graduation.