I. Program of Study

The Graduate Medical Sciences concentration in Biomedical Sciences offers a Master of Science degree. All students are subject to the requirements listed in the Graduate School of Biomedical Sciences Catalog and Student Handbook of Texas Tech University Health Sciences Center published at the time of admission as well as concentration guidelines. New students are admitted prior to each fall term. Students are required to have a personal laptop computer which meets the general recommendations for laptop computer configurations compatible with the TTUHSC network and Sakai. More information regarding laptop configurations is available at https://www.ttuhsc.edu/biomedical-sciences/program/graduate-medical-sciences.aspx or from the graduate coordinator.

The Graduate Medical Science masters is a non-thesis degree designed to prepare students to be self-directed, life-long learners medical or dental school, or in teaching positions that emphasize anatomy, histology, biochemistry, and physiology. Students complete the first three blocks of the School of Medicine curriculum (including Graduate Human Anatomy, Graduate Cell and Tissue Biology, and Systems Physiology) during the first year and then function as teaching assistants in these blocks during the second year. The concentration advisor will serve as the student’s advisor during year one, and after an education project is selected, a faculty mentor will be appointed by the concentration advisor. An education project is required during the second year.

A. Prerequisites for Admission

1. A bachelor's degree or the equivalent from an accredited college or university.

2. Adequate preparation for the proposed field of graduate study. Students may have an undergraduate degree in any field, but a strong science background is encouraged, including the completion of an undergraduate biochemistry course. Applicants must have completed or will complete the prerequisites for Texas Medical and Dental School Application Service (TMDSAS) medical school admission prior to matriculating into the program.
3. Each student must take the Graduate Record Examination (General Test) and have the scores forwarded directly to our institution for evaluation.

Occasionally the concentration will accept an MCAT score in lieu of the GRE requirement. The applicant must request MCAT in lieu of GRE and provide the graduate coordinator with his or her AAMC ID and Verification Code. The concentration will submit a waiver request to the Senior Associate Dean of the Graduate School of Biomedical Sciences, who has ultimate authority to approve or deny the request.

4. Two recent letters of recommendation (within 1 year), which must be from former faculty or administrators who are familiar with the scholastic abilities of the applicant.

5. Other admissions application requirements and deadline information are available on the Graduate School of Biomedical Sciences website: https://www.ttuhsce.edu/biomedical-sciences/academics/admissions.aspx

6. A personal interview may be requested by the concentration.

B. Graduate School Requirements - The Graduate School of Biomedical Sciences requires a minimum of 36 hours of graduate-level course work.

C. Concentration Mandates - Courses needed to fulfill the required number of hours are listed in Appendix 3.

D. Project – Students will design and carry out a medical education project (Appendix 5) under the direction of an appropriate faculty advisor (Appendix 2). The project will be designed according to the needs of the concentration and matched to the interest of the student. Examples of a project might include self-directed learning units/sessions, or upgrading or creating educational materials to be presented online. The student must choose a project prior to the beginning of the second year. Students will be given a list of possible projects or may choose a project of their own after consultation with the concentration advisor and faculty advisor (Appendix 6). The project must be approved by the concentration advisor. After the project is selected, the concentration coordinator and student will submit the Degree Plan and Admission to Candidacy to GSBS (Appendix 7).

Subsequent alterations to the project for any reason will require approval of the concentration advisor.

Second year students will present their project at Student Research Week and in a public seminar during the final Spring semester. The project and presentation will be evaluated by the concentration committee and faculty using Appendix 5. Successful completion of the project will be determined by the concentration committee. The project must be successfully completed to graduate.

E. Intent to Graduate – Each student is required to file the Statement of Intent to Graduate (Appendix 9) with the Graduate School of Biomedical Sciences office in the same semester the student will graduate. Generally, this deadline is at the beginning of each semester. Students should check the GSBS website at: https://student.ttuhsce.edu/biomedical-sciences/current/default.aspx.
II. Assessment of Graduate Student Progress (Appendix 1):

The graduate student checklist is the major tool for assessing graduate student progress through the degree program. It is the student’s responsibility to ensure that all appropriate forms are signed and filed with the graduate coordinator according to deadlines. This checklist, Appendix 1, and the student’s file will be reviewed every summer or as needed to ensure and assess student progress by the concentration committee (Appendix 8). In addition to meeting the concentration requirements detailed below, it is expected that the student will maintain above average ratings in all required assessment tools (Appendix 1). Failure to maintain these standards may result in the student being placed on academic probation or dismissed from the concentration.

The concentration committee has the responsibility for monitoring the progress of the graduate student and can recommend dismissal of the student to the Graduate School of Biomedical Sciences should the student fail to demonstrate adequate development and/or progress through the degree program.

III. Concentration Requirements

A. Satisfactory Academic Standing - Every student enrolled is required to maintain a high level of performance and to comply fully with policies of the institution and the GMS graduate program. The Graduate School of Biomedical Sciences reserves the right to place on probation or to dismiss any graduate student who does not maintain satisfactory academic standing or who fails to conform to the regulations of the university. Every student is expected to maintain a high level of commitment to professional development in a variety of areas. If any aspect of a student's professional development (for example, attention to teaching responsibilities, appropriate progress toward project goals, etc.) is considered to be unsatisfactory by either the concentration committee or the student's faculty advisor (if one has been appointed), the student shall be so informed in writing, along with a description of the recommended corrective action and the period of time allowed for the corrective action to be taken. If the student fails to correct the deficiency, the committee may recommend dismissal of the student from the concentration.

Students must attain a “B” or higher in all courses (Appendix 4). If the student attains a “C” in one of these courses, they will be required to retake the course the following year and attain at least a “B” grade. If the student makes less than a “C” in a course or less than a “B” in two or more courses during the first year, they will be dismissed from the concentration. To remain in good academic standing with the graduate school, students must maintain a GPA of 3.0 in each semester. If the student drops below a 3.0 for any semester, he or she will be placed on academic probation. If the student attains less than 3.0 in any subsequent semester, they will be dismissed from the concentration. Failure to meet appropriate deadlines outlined in the degree concentration checklist (Appendix 1) or unprofessional conduct by the student could result in the student being placed on Graduate Medical Sciences concentration probation. Students who make a grade of D or F will automatically be dismissed.
In addition to concentration grade requirements, students will be evaluated for progress by the course directors in GGMS 5004 (Advanced Training in Anatomy Education), GGMS 5005 (Advanced Training in Biochemistry and Histology Education), GGMS 5001 (Graduate Human Anatomy), GGMS 5002 (Graduate Cell and Tissue Biology), GGMS 5003 (Systems Physiology), and GGMS 5008 (Advanced Training in Physiology Education) using Appendix 10. Course directors will review this appendix with each student. This appendix will also be reviewed by the Concentration Advisor and student.

B. Course Waiver Procedure - Students requesting a waiver for a concentration-required course should follow these steps:

1. The student will make a written request to the concentration advisor outlining the course(s) to be waived, the reasons why the waiver is requested, and which, if any, previous graduate level courses addressed the same material as the waived course. The student must provide the concentration advisor with the relevant course syllabus.

2. The concentration advisor will forward the request to the concentration committee for consideration and request a vote on the waiver request.

3. The student will be notified of the voting results by email.

C. Grievances and Appeals

Student Appeals Policy. This policy applies to specific grievances arising from matters affecting students' academic standing and performance such as disputes concerning projects and project presentations. Appeals may be made only when alleged prejudicial, arbitrary or capricious action is involved. The burden of proof of unfair influence or action rests with the student.

A student wishing to appeal a decision or action should first discuss the matter with the faculty member or members involved. If the student is not satisfied with the outcome of this discussion, the student should contact the concentration advisor. This contact, like that with the faculty members, normally is informal, and the concentration advisor may take whatever action he or she deems advisable in attempting to resolve the issue. All parties involved should make every effort to resolve the issue without going beyond this level. The concentration advisor may consult with either the concentration committee (excluding the Dean of the Graduate School of Biomedical Sciences) or an ad hoc committee of graduate faculty from the concentration (when the appeal is of an action taken by the concentration committee or a substantial proportion of its elected members) for advice regarding actions in an appeal. If the student still is not satisfied following these meetings and discussions, the student may make a formal appeal to the Dean for the Graduate School of Biomedical Sciences. The appeal shall be processed according to the rules of the Graduate School of Biomedical Sciences in effect at the time it is filed with the dean.

D. Leave of Absence

A Leave of Absence may be requested by submitting a written request to the concentration advisor at the beginning of the semester and must specify the reason for the request.
The Graduate School of Biomedical Sciences has a Leave of Absence policy (GSBS Catalog, Page 31), which states:

“Any student who fails to register for three consecutive semesters (12 months) and who does not have an official leave of absence from study is subject to review for readmission by the standards in effect at the time of reconsideration. Official leave of absence, which is granted by the GSBS Office upon recommendation of the graduate advisor or advisory committee Chair, may be granted only in cases of serious medical conditions and other exceptional reasons. Normally, leaves of absence will not exceed one year. Leaves of absence do not extend the maximum time allowed for completion of the degree.”

Students granted a Leave of Absence must submit written confirmation to the concentration advisor of their intent to return to the concentration one month prior to their intended return. A student who returns from a Leave of Absence must ensure that all obligations associated with their return, including timely registration for the appropriate semester, are met.

Requests to extend a Leave of Absence beyond one year must also be submitted in writing to the concentration advisor and will only be granted under unusual circumstances. In addition, the student must have been in good academic standing at the time of the original request. If a Leave of Absence request is denied and the student does not continue in the curriculum, the student will be considered to have withdrawn from the program. The student may reapply for admission to the concentration but will be subject to the same requirements and deadlines as other prospective students.

E. Additional Specific Information

1. Registration - A student must be registered for a minimum of 1 hour in the semester that he/she intends to graduate. Students will register for a minimum 9 hours for each long semester (fall and spring) and may register for up to 6 hours for the summer session.

2. There is no requirement for a foreign language or a minor.

3. Appendix 11 lists all courses offered by the Graduate Medical Sciences Concentration

4. Degree plans are subject to change as the concentration guidelines are revised.

IV. Concentration Constitution and Policies

A. Concentration Committee Composition and Responsibilities

The concentration committee consists of four members. Three are elected by graduate faculty members in the concentration, who then serve for terms of three years. The Dean of the Graduate School of Biomedical Sciences serves as an ex officio member (voting only in the case of a tie). The chair of the committee is appointed by the Dean of the Graduate School of
Biomedical Sciences and acts as the concentration advisor. The concentration advisor appoints an associate concentration advisor from the three elected faculty members. The associate concentration advisor fulfills advisor duties in the absence of the concentration advisor. Specific functions of the concentration committee are to: 1) oversee the general governance of the concentration, 2) review and accept students into the concentration, 3) oversee content of the required courses, 4) ensure that course directors are providing the students with a syllabus that clearly outlines course contents and grading policies, 5) annually evaluate student progress, and 6) conduct the 7-year GSBS graduate faculty review. The concentration committee will serve as the student's advisory committee.

The concentration advisor will serve as one of the concentration’s two representatives to the TTUHSC Graduate Council. The second representative to Graduate Council will be elected by the concentration faculty. If a second representative is not elected, the associate advisor will serve as the representative.

B. Student representatives to the concentration committee

Two student representatives to the concentration committee will be selected by GMS students in the Spring of year 1. They will be expected to attend all concentration committee meetings during the academic year, where they will:

1. Relay questions and concerns from the GMS students to the committee,
2. Participate in discussions by the committee, except where such participation would represent a conflict of interest, and
3. Assist in the admissions process, as requested by the faculty of the concentration committee.

Students will not be considered to be voting members of the committee.

C. Proposing Changes to the Guidelines of the Concentration in Graduate Medical Sciences

The general governance of the concentration including changes to the guidelines is the primary responsibility of the concentration committee. However, any member of the Graduate Medical Sciences graduate faculty has the right to recommend a change in the Graduate Medical Sciences concentration by presenting a written document to the concentration advisor. The concentration advisor will then call together the concentration committee to discuss the proposed change. All changes must conform with the policies of the Graduate Bylaws of the Graduate School of Biomedical Sciences (TTUHSC). The concentration committee must then make a recommendation (in favor of, or opposed to, the suggestion) to the concentration advisor for a final decision. The concentration advisor will then be responsible for formally revising the guidelines.

Guidelines approved by the Graduate Medical Sciences Concentration Committee on April 24, 2019.
# Graduate Medical Sciences Concentration Student Checklist

<table>
<thead>
<tr>
<th>GA Approval</th>
<th>Requirements</th>
<th>Appendix</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester Year 1</strong></td>
<td>GGMS 5001 Graduate Human Anatomy</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5002 Graduate Cell and Tissue Biology</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester Year 1</strong></td>
<td>GGMS 5003 Systems Physiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Choose One:</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5110 Surgical Gross Anatomy OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5006 Advanced Dissection Skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Meet with Faculty Regarding Educational Project</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select an Educational Project:____________________</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Submit Degree Program to GSBS</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester Year 2</strong></td>
<td>FERPA Training</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5005 Advanced Training in Biochemistry and Histology Education</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5004 Advanced Training in Anatomy Education</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 7000 Research (3 Hours) Begin Project</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester Year 2</strong></td>
<td>Submit Intent to Graduate to GSBS</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5310 Educational Project in Biomedical Sciences (Complete Project)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5008 Advanced Training in Physiology Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 5099 Topics: Pedagogical Concepts in Medical Education</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GGMS 7000 (2 Hours) - Complete Project</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GSBS 5101 Responsible Conduct of Research</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See checklist for graduation deadlines from the GSBS website.
Appendix 2: Graduate Faculty of the Concentration

Professors

Jannette Dufour, Ph.D.
Cheryl Erwin, J.D., Ph.D.
Jim Hutson, Ph.D.
Betsy Jones, Ed.D.
John Pelley, Ph.D.
Thomas Pressley, Ph.D.
Brandt Schneider, Ph.D.

Associate Professors

Greg Brower, D.V.M.
Lisa Popp, Ph.D.
Annette Sobel, Ph.D.
Dan Webster, Ph.D.

Assistant Professors

Gurvinder Kaur, Ph.D.

Faculty Associate

Anthony Hewetson, M.S.

Graduate Committee:

Dan Webster: Permanent Position as Concentration Advisor
Jannette Dufour: Present - Aug 31, 2020
John Pelley: Present – Aug. 31, 2021
TBN: Associate Advisor, Present - Aug. 31, 2019
Brandt Schneider: Permanent ex officio Member
Anthony Hewetson: Present-August 31, 2021

Graduate Council:

Dan Webster: Permanent Position as Concentration Advisor
Greg Brower: September 1, 2018 - August 31, 2020
Appendix 3: Sample Graduate Medical Sciences Concentration Curriculum

Curriculum
Students will take courses in the anatomical and physiological sciences and in modern instructional methods and design, and will participate in the teaching mission of the medical school as teaching assistants. Elective courses are also listed in Appendix 11.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall Term</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GGMS 5001</td>
<td>Graduate Human Anatomy</td>
<td>6 hrs</td>
</tr>
<tr>
<td>GGMS 5002</td>
<td>Graduate Cell and Tissue Biology</td>
<td>5 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 credit hours</td>
</tr>
</tbody>
</table>

|                      | Spring Term                    |
|----------------------|--------------------------------|------------------|
| GGMS 5003            | Systems Physiology             | 9 hr             |
| GGMS 5110            | Surgical Gross Anatomy         | 1 hrs            |

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall Term</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GGMS 5004</td>
<td>Advanced Training in Anatomy Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GGMS 5005</td>
<td>Advanced Training in Biochemistry and Histology Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GGMS 7000</td>
<td>Research (Begin Project)</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 credit hours</td>
</tr>
</tbody>
</table>

|                      | Spring Term                    |
|----------------------|--------------------------------|------------------|
| GGMS 5008            | Advanced Training in Physiology Education | 1 hr  |
| GGMS 5310            | Educational Project in Biomedical Sciences (Complete Project) | 3 hrs  |
| GGMS 5099            | Topics: Pedagogical Concepts in Medical Education | 1 hr  |
| GGMS 7000            | Research (Complete Project)     | 2 hrs            |
| GSBS 5101            | Responsible Conduct of Research | 1 hr            |

10 credit hours
Appendix 4: Grading Scale

Grading Scale for the following courses:

GGMS 5001 Graduate Human Anatomy
GGMS 5002 Graduate Cell and Tissue Biology
GGMS 5003 Systems Physiology

A, B, C, D, or F cumulative score as graded on the written and practical exams.

87.00 and Above = A
75.00 – 86.99 = B
70.00 – 74.99 = C
65.00 – 69.99 = D
64.99 and Below = F

Refer to syllabus for grading scale in all other courses.
Appendix 5: Project Presentation Evaluation

Graduate Medical Sciences Project/Presentation Evaluation Form

Date: ___________________  Evaluator: ____________________________________________
Student: ________________________________________________________________

Mark the appropriate box for each statement.  (50 points possible)

<table>
<thead>
<tr>
<th>The Project</th>
<th>Outstanding</th>
<th>Above Average</th>
<th>Average</th>
<th>Below Average</th>
<th>Inadequate</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>The project represented a meaningful contribution to the educational goals of the concentration.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>The educational issue that this project addressed was made clear.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The methods were appropriate and presented clearly.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data were presented clearly and were analyzed and interpreted properly, using statistics where appropriate.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The discussion included possible alternatives and study limitations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The significance of the project was stated clearly.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| The Presentation                                                            |             |               |         |               |            |                |
| The slides were readable, illustrating concepts and data, and in logical order. |             |               |         |               |            |                |
| The student was engaging, spoke clearly and provided smooth transitions from slide to slide. |             |               |         |               |            |                |
| Questions were answered in a confident and knowledgeable fashion.            |             |               |         |               |            |                |
| The student was able to respond to criticism and suggestions readily, and was able to defend their presentation appropriately. |             |               |         |               |            |                |

Comments:                                                                 |             |               |         |               |            |                |
Appendix 6: Graduate Medical Science Project Advisor Agreement

To: The Concentration Advisor of Graduate Medical Sciences

From: The Graduate Student

Subject: Selection of the MS Graduate Medical Sciences Project Advisor

Date: ______________________

The two parties who have signed below mutually agree to begin a formal Graduate Student-Major Advisor relationship directed toward the goal of earning a M.S. degree for the student.

Student's Signature: ______________________

Project Advisor (Please Print): ______________________

Project Advisor's Signature: ______________________

Project Name: ______________________

Concentration Approval: ______________________

Concentration Advisor’s Signature: ______________________
# Appendix 7: Master's Degree Plan

Must Complete Online: [http://www.ttuhsc.edu/gsbs/documents/forms/ms_degree_plan.pdf](http://www.ttuhsc.edu/gsbs/documents/forms/ms_degree_plan.pdf)

---

**MASTER'S DEGREE PLAN & APPLICATION FOR ADMISSION TO CANDIDACY**

After admission to a degree program, every applicant for the master's degree is required to complete this form and submit it to the Graduate School of Biomedical Sciences for approval as early as possible and no later than six months prior to proposed date of graduation.

<table>
<thead>
<tr>
<th>Date</th>
<th>Official Use Only</th>
<th>Catalog</th>
<th>Deadline</th>
</tr>
</thead>
</table>

**Name**

TTUHSC ID (R#)

**Program/Concentration**

**Expected Year & Semester of Graduation**

- [ ] Thesis
- [ ] Non-Thesis

- [ ] Fall
- [ ] Spring
- [ ] Summer

**Thesis Committee** (3 minimum)

1) Chair

2) 

3) 

4) 

**Thesis topic (if known at this time)**

**Coursework** (prefix and number as it appears in catalog, i.e. GPHY6000. Please do not list course title. Courses with multiple enrollments should be designated with hours in parenthesis, i.e., GBCH6000 (6).

<table>
<thead>
<tr>
<th>Major (Thesis) 24 hours minimum plus 6 hours thesis</th>
<th>Major (non-thesis) 36 hours minimum</th>
<th>Transfer Course Number*</th>
<th>GSBS Equivalent Course Number*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

*Please attach a separate document noting the Transfer Course, Institution & Year Taken. In order for transfer courses to be entered on the TTUHSC transcript, courses must be given the GSBS equivalent number. Please provide official transcript for all transfer courses. No more than 6 hours of a 30 hour program, or 9 hours of a 36 hour program may be transfer hours.

*Approval of this form by the GSBS Assistant Dean merely indicates that the proposed program is acceptable; it carries no assurance of the applicant's attainment of a degree. Changes to this program may be made using the Changes to Degree Plan Form available on the GSBS Website. Conditions for approval for admission to candidacy must be met before the proposed semester of graduation.*

**Graduate Advisor or Committee Chair (typed/printed)**

**Signature of Graduate Advisor or Committee Chair**

[ ] Approved  [ ] Conditional Approval

GSBS Assistant Dean

Date

*Forward this form to the GSBS, 2B106, Mail Stop 6206*
Appendix 8: Annual Graduate Student Progress Review

Student Name: _________________________________

Concentration Committee
Review Date: _________________________________

Comments: ___________________________________
_____________________________________________
_____________________________________________
_____________________________________________

Concentration Advisor Signature: _________________________________
Appendix 9: Intent to Graduate
Must Complete Online: http://www.ttuhsc.edu/gsbs/documents/forms/intentgraduate.pdf

STATEMENT OF INTENTION TO GRADUATE

Please complete all information and return to the Graduate School of Biomedical Sciences Office (2B106 or mail stop 6206). You will also need to complete the electronic Intent to Graduate and Student Regalia Form on the Student Services website at: http://www.ttuhsc.edu/studentservices/commencement/default.aspx.

Full Name for Diploma
Please include any credentials you have previously earned that you would like printed (e.g. Sheldon Cooper, PhD)

Program/Concentration

Semester of Graduation (e.g. Spring 09)

Degree Sought

☐ MS  ☐ PhD  ☐ MD/PhD

DIPLOMA

☐ Will pick up at the Commencement Ceremony*  ☐ Will pick up from the Registrars Office*

☐ Please mail it to me

Diploma Mailing Address

Will you be attending

GSBS Convocation ceremony in May?  ☐ Yes  ☐ No

TTUHSC Commencement ceremony in the May?  ☐ Yes  ☐ No

NOTE: You must order Regalia to attend these events

If you would like your name to be printed in either the Convocation or Commencement Programs, you must have a release of information form on file with GSBS. You can do this using the form located on the GSBS website.

OFFICIAL TITLE FORM

Title pages for students who write theses or dissertations will be prepared using information supplied on this form. If this is your first submission of title, or if changes are necessary, fill in below and have your chairperson sign.

Defense Date (tentative)

Official title - Print or type (do not use symbols, formulas, etc.)

Committee members (indicate chair)

APPROVALS

Committee Chair

Date

Forward this form to the GSBS Office, 2B106, Mail Stop 6206
Appendix 10: Course Directors Evaluation of Student Progress–Graduate Medical Sciences

Date: ____________________  
Student: ____________________  
Course: ____________________  
Evaluator: ____________________

Mark the appropriate box for each statement. (In order for a student to pass the course, student must receive a grade of 3/Average or above in the Overall Progress category.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Outstanding</th>
<th>Above Average</th>
<th>Average</th>
<th>Below Average</th>
<th>Inadequate</th>
<th>Not Applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparedness for Lecture/Lab/Prelab Sessions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active Engagement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Communication Skills</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>General Comprehension of the Material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Extra Items: Study Sessions, Generation of Practice Exams, etc. (as applicable)</td>
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<td>Overall Student Progress (Overall progress score is an overall reflection of the subscores but not necessarily a numerical average of the subscores.)</td>
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Comments: ____________________

Date Reviewed by Concentration Advisor ________________
Appendix 11: Concentration Courses Offered

GGMS Courses:

**5001. Graduate Human Anatomy (V1-9).** A highly integrated introductory course of anatomical study (including human dissection) which embodies the gross morphology of the body and coordinates it with clinical, developmental, and microscopic aspects of the human body. Enrollment limited to students admitted to the Pre-Medical Sciences concentration. (F)

**5002. Graduate Cell and Tissue Biology (V1-9).** Biology of Cells and Tissues is designed to provide students with fundamental information concerning the traditional areas of biochemistry, histology, and cell biology. The principles presented in the course will proceed from molecules to cells and then to tissues integrating structure and function. Enrollment is limited to students admitted to the Pre-Medical Sciences M.S. concentration. (F)

**5003. Graduate Systems Physiology (V1-9).** A graduate course of human physiology which provides the student with a basic understanding of the organ systems of the human body. Their functions, regulation and interactions are emphasized. Course prerequisite: undergraduate degree with a strong

**5004. Advanced Training in Anatomy Education (V1-6).** Students will participate in the gross anatomy laboratories as teaching assistants and attend all pre-laboratory meetings in preparation for the laboratory sessions. The students will also assist in preparing the practical exams. Prerequisites include successful completion of the first year coursework in Graduate Medical Sciences. Enrollment limited to students admitted to the Pre-Medical Sciences M.S. concentration. (F)

**5005. Advanced Training in Biochemistry and Histology Education (V1-6).** Students will participate in the histology laboratories as teaching assistants and attend all pre-laboratory meetings in preparation for the laboratory sessions. The students will also assist in preparing the practical exams. Prerequisites include successful completion of the first year course work in Graduate Medical Sciences. Enrollment limited to students admitted to the Pre-Medical Sciences M.S. concentration. (F)

**5006. Advanced Dissection Skills (V1-6).** Students will review and conduct specialized dissections in the Anatomy Laboratory. The student will learn and practice advanced dissections skills designed to prepare specific teaching materials to demonstrate anatomical structures in different body regions. Prerequisites include successful completion of the first year course work in Graduate Medical Sciences.

**5007. Advanced Training in Ultrasound (V1-3).** The overall goal is to show how to utilize ultrasound imaging to visualize and teach advanced topics in anatomy and physiology. Prerequisites: successful completion of GGMS 5001 and GGMS 5004.

**5008. Advanced Training Physiology Education (V1-6).** Students will participate in the physiology laboratories as teaching assistants and attend all pre-lab meetings and lectures. The students will assist with proctoring exams and leading study sessions. Prerequisites include successful completion of the first year coursework in Graduate Medical Science. (F)

**5009. Topics in Graduate Medical Sciences (V1-6).** Specific areas in Graduate Medical Sciences or related areas not normally included in other courses. May be repeated for credit with change of content. (F)

**5110. Surgical Gross Anatomy (1:1:0).** Introduction and overview to surgical approaches to different regions of the human body from a clinical perspective. Students will observe and assist surgeons with surgical dissections of cadavers. The experience in surgical anatomy will provide students with a relevant correlation of anatomy to applied surgical procedures. Enrollment limited to students admitted to Graduate Medical Sciences M.S. concentration and successful completion of GGMS 5001 Gross Anatomy course. (F)

**5115. Introduction to Functional Neuroanatomy (1:1:0).** Students will learn to identify external and internal structures of the central nervous system (CNS: brain and spinal cord) and associated vasculature. They will be able to describe the symptoms due to lesions in specific brain and spinal cord lesions. Prerequisites: good academic standing, GGMS 5001. (F)

**5120. How People Learn: Theory and Practice (1:1:0).** The overall goal is to show how maximize learning skill in the health sciences with an emphasis on medical education. Individual differences in learning style will be used as examples of the application of Deliberate Practice to increase cognitive skills. Concepts such as the Growth Mindset
and memory consolidation will provide a basis for understanding the universal application of concept mapping and question analysis as methods that maximize return on investment of learning time.

5310. Educational Project in Biomedical Sciences (3:0:3). Students will design and carry out an educational project related to topics in GMED 5001 or GMED 5002. The project will be designed according to the needs of these courses and matched to the interest of the student. Projects might include self-directed learning units/sessions, or upgrading or creation of educational materials as presented on Sakai. Enrollment limited to students admitted to the Graduate Medical Sciences M.S. concentration. (F)

6101. Seminar (1:1:0). (F)

7000. Research (V1-9). (F)

GSBS Interdisciplinary Course:

5101. Responsible Conduct of Research (1:1:0:0). This course will address the regulatory and ethical environment of today’s biomedical research as well as such topics as authorship and data management. The class format is lectures and case discussions. Course is required for all GSBS students. (F)