

**IMPORTANT:** This syllabus form should be submitted to OAA ([gsbs\\_academic\\_affairs@uth.tmc.edu](mailto:gsbs_academic_affairs@uth.tmc.edu)) a week before the start of each semester.

**NOTE to STUDENTS:** If you need any accommodations related to attending/enrolling in this course, please contact one of the Graduate School's 504 Coordinators, Cheryl Spitzenberger or Natalie Sirisaengtaksin. We ask that you notify GSBS in advance (preferably at least 3 days before the start of the semester) so we can make appropriate arrangements.

| Term and Year: <b>Summer 2022</b><br>Course Number and Course Title:<br><b>GS03 1111: Scientific Writing for Grant Proposals</b><br>Credit Hours: <b>1</b><br>Meeting Location: <b>Virtual</b><br>Building/Room#:<br>WebEx/Zoom Link:                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Program Required Course:</b> Yes <input checked="" type="checkbox"/> No<br><b>Approval Code:</b> Yes <input checked="" type="checkbox"/> No<br>(If yes, the Course Director or the Course Designee will provide the approval code.)<br><b>Audit Permitted:</b> Yes <input checked="" type="checkbox"/> No<br>Classes Begin: <b>July 7</b><br>Classes End: <b>August 11</b><br>Final Exam Week: <b>N/A</b>                                                                                                                                                                                                                                                                                        |     |      |                     |                  |  |  |
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| <b>Class Meeting Schedule</b> <table border="1"> <thead> <tr> <th>Day</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>Monday and Thursday</td> <td>10:00 11:30 a.m.</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Day | Time | Monday and Thursday | 10:00 11:30 a.m. |  |  |
| Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |                     |                  |  |  |
| Monday and Thursday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10:00 11:30 a.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |                     |                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |                     |                  |  |  |
| <b>Course Director</b><br>Name and Degree: <b>Xiaodong Cheng, PhD</b><br>Title: <b>Professor</b><br>Department: <b>Integrative Biology and Pharmacology</b><br>Institution: <b>X UTH MDACC</b><br>Email Address: <a href="mailto:xiaodong.cheng@uth.tmc.edu">xiaodong.cheng@uth.tmc.edu</a><br>Contact Number: <b>713-500-7487</b><br><b>Course Co-Director/s:</b> (if any)<br>Name and Degree: <b>Alemayehu (Alex) Gorfe, PhD</b><br>Title: <b>Professor</b><br>Department: <b>Integrative Biology and Pharmacology</b><br>Institution: <b>X UTH MDACC</b><br>Email Address: <a href="mailto:alemayehu.g.abebe@uth.tmc.edu">alemayehu.g.abebe@uth.tmc.edu</a><br>Contact Number: <b>713-500-7538</b> | <b>Instructor/s</b> (Use additional page as needed)<br><b>1. Xiaodong Cheng, PhD</b><br>Name and Degree<br>Institution: <b>Integrative Biology and Pharmacology</b><br>Email Address: <a href="mailto:xiaodong.cheng@uth.tmc.edu">xiaodong.cheng@uth.tmc.edu</a><br><b>2. Alemayehu (Alex) Gorfe, PhD</b><br>Name and Degree<br>Institution: <b>Integrative Biology and Pharmacology</b><br>Email Address: <a href="mailto:alemayehu.g.abebe@uth.tmc.edu">alemayehu.g.abebe@uth.tmc.edu</a><br><b>3. Michael Zhu, PhD</b><br>Name and Degree<br>Institution: <b>Integrative Biology and Pharmacology</b><br>Email Address: <a href="mailto:michael.x.zhu@uth.tmc.edu">michael.x.zhu@uth.tmc.edu</a> |     |      |                     |                  |  |  |

**NOTE:** Office hours are available by request. Please email me to arrange a time to meet.

**Teaching Assistant:** (if any)

N/A

Name and Email Address

**Course description:**

“Scientific Writing For Grant Proposals” is a 1 credit mini-course offered every summer term which will fulfill the GSBS writing requirement. The class will meet twice per week. Subject matter will include formal lectures about writing the major sections of an NIH fellowship, and workshops to go over student submissions. The final classes will be mock study sections with peer review. This course may be most useful for second year students preparing for their qualifying examination and potential fellowship applications.

**Textbook/Supplemental Reading Materials** (if any)

- TBD
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**Course Objective/s:**

Upon successful completion of this course, students will ...

***Specific Learning Objectives:***

1. Learn the components and content of an NIH fellowship.
2. Learn the components and content of an NIH fellowship.
3. Develop critical thinking skills and how to effectively transmit ideas onto paper.
4. Learn how to provide effective feedback on peers’ grants and to participate in a study section.

**Student responsibilities and expectations:**

**Course Requirements**

The course will be graded Pass or Fail. Grading will be determined by attendance, timely submission of grant subsections, and active participation in class. If a student is not able to attend a class, Dr. Cheng or Dr. Abebe *must* be notified ahead of time.

**Assignments**

- Specific Aims (SA) section: due on July 10 (Mon) by 5 pm
- Revised SA section: due on July 14 (Fri) by 5 PM
- Significance, Innovation, and Rigor (SIR) section: due on July 18 (Tue) by 5 pm
- Revised SIR section: due on July 24 (Mon) by 5 pm
- Approach section: due on July 28 (Fri) by 5 pm
- Full proposal: due on August 3 (Thur) by 5 pm

**Grading System: Pass/Fail****Student Assessment and Grading Criteria :** *(May include the following:)*

| Percentage                                     | Description                                                                                                                                   |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Participation and/or Attendance ( 40 %)</b> | Class attendance and active participation in workshops.                                                                                       |
| <b>Submission of grant subsections ( 40 %)</b> | The subsections must be submitted on or before the due dates and must be a full draft in accordance with the instructions presented in class. |
| <b>Written Peer Review ( 20 %)</b>             | Written peer review critiques and study section presentation of grants                                                                        |
| Midterm Exams (    %)                          |                                                                                                                                               |
| Final Exam (    %)                             |                                                                                                                                               |
| Workshop or Breakout-Session (    %)           |                                                                                                                                               |

**CLASS SCHEDULE**

| <b>Date</b>      | <b>Duration<br/>(Hour(s)<br/>taught by<br/>lecturer)</b> | <b>Lecture Topic</b>                                        | <b>Lecturer/s</b>      |
|------------------|----------------------------------------------------------|-------------------------------------------------------------|------------------------|
| <b>July 7</b>    | <b>1.5 hrs.</b>                                          | <b>Lecture 1/2:</b> Course Introduction; Specific Aims (SA) | <b>Cheng</b>           |
| <b>July 11</b>   | <b>1.5 hrs.</b>                                          | <b>Lecture 3:</b> Significance, Innovation, and Rigor (SIA) | <b>Cheng</b>           |
| <b>July 14</b>   | <b>1.5 hrs.</b>                                          | SA Workshop #1                                              | <b>Gorfe/Zhu/Cheng</b> |
| <b>July 18</b>   | <b>1.5 hrs.</b>                                          | SA Workshop #2                                              | <b>Gorfe/Zhu/Cheng</b> |
| <b>July 21</b>   | <b>1.5 hrs.</b>                                          | SIR Workshop #1                                             | <b>Gorfe/Zhu/Cheng</b> |
| <b>July 25</b>   | <b>1.5 hrs.</b>                                          | <b>Lecture 4: Approach</b>                                  | <b>Cheng</b>           |
| <b>July 28</b>   | <b>1.5 hrs.</b>                                          | SIR Workshop #2                                             | <b>Gorfe/Zhu/Cheng</b> |
| <b>August 1</b>  | <b>1.5 hrs.</b>                                          | Approach Workshop                                           | <b>Gorfe/Zhu/Cheng</b> |
| <b>August 4</b>  | <b>1.5 hrs.</b>                                          | <b>Lecture 5/6:</b> Biosketch; Training Plan                | <b>Cheng</b>           |
| <b>August 8</b>  | <b>1.5 hrs.</b>                                          | Mock Study Section                                          | <b>Gorfe/Zhu/Cheng</b> |
| <b>August 11</b> | <b>1.5 hrs.</b>                                          | Mock Study Section                                          | <b>Gorfe/Zhu/Cheng</b> |

**NOTE:** Provide other class information as needed.

*XC/jal*