Contact information

Instructor: Prof. Teresita (Tere) Padilla-Benavides
E-mail: tpadillabena@wesleyan.edu
Phone: 860-685-3070
Office: 234 Hall-Atwater

Student Hours: For winter session please email to schedule please. I adhere to an open-door policy – feel free to stop by my office or lab any time that I am around – if I don’t have time to talk, we will set up another time. We should meet at least once during the winter.

Classes: Mon - Fri 10:00 AM-12:00 PM and 1:00 PM-3:00 PM
Location: Zoom meetings.
Course website: Moodle. All of the course materials and assignments will be available on Moodle. This site and email will be my primary modes of online communication. E-mail: I will try to answer e-mails as soon as possible (within 24 hours). Please do not expect an instant response.

Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on the student code.

Course Overview

This introductory course is designed for students with intermediate to advanced knowledge of the Spanish language. The class focus is to help students understand basic scientific concepts in Spanish and discuss scientific literature of general interest in Spanish. The goal is to develop language skills (reading, listening, writing, and speaking) with focus on scientific topics.

Calendario

<table>
<thead>
<tr>
<th>Fecha</th>
<th>Ponente</th>
<th>Tema</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4/22</td>
<td>Tere Padilla-Benavides, PhD</td>
<td>Introduccion al curso Discussion/evaluacion de habilidades generales de espanol con los estudiantes</td>
</tr>
<tr>
<td>10:00-12:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4/22</td>
<td>Blanca Barquera, PhD y Tere Padilla-Benavides, PhD</td>
<td>El papel del oxido nitrico en la inflamacion del colon, su uso en bacterias del colon y produccion de la vitamina K</td>
</tr>
<tr>
<td>1:00-3:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fecha</td>
<td>Hora</td>
<td>Presentaciones</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1/5/22</td>
<td>10:00-11:00</td>
<td>Luis Ortiz-Frade, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/5/22</td>
<td>11:00-12:00</td>
<td>Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/5/22</td>
<td>1:00-2:00</td>
<td>Isaac Cervantes Sandoval, PhD, y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/5/22</td>
<td>2:00-3:00</td>
<td>Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/6/22</td>
<td>10:00-12:00</td>
<td>Liliana Quintanar, PhD, y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/6/22</td>
<td>1:00-2:00</td>
<td>Laura Tonelli, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/6/22</td>
<td>2:00-3:00</td>
<td>Carlos Vinajera y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/7/22</td>
<td>10:00-11:00</td>
<td>Monserrat Olea-Flores, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/7/22</td>
<td>11:00-12:00</td>
<td>Odette Verdejo Torres, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/7/22</td>
<td>1:00-3:00</td>
<td>Jorge Ortega, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/10/22</td>
<td>10:00-11:15</td>
<td>Ana Fabiola Guzman, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/10/22</td>
<td>11:15-12</td>
<td>Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/10/22</td>
<td>1:00-3:00</td>
<td>Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/11/22</td>
<td>10:00-11:00</td>
<td>Nora Medina-Jaritz, PhD y Tere Padilla-Benavides, PhD</td>
</tr>
<tr>
<td>1/11/22</td>
<td>11:00-12:00</td>
<td>Tere Padilla-Benavides, PhD</td>
</tr>
</tbody>
</table>
### 1/11/22
1:00-3:00
Daniel Raimunda, PhD y Tere Padilla-Benavides, PhD
Nuevos roles de los transportadores de la familia CDF en bacterias asociados a antimicrobianos y centros hierro-sulfurados

### 1/12/22
10:00-11:00
Paola Maycotte, PhD y Tere Padilla-Benavides, PhD
Autofagia y cancer

11:00-12:00
Tere Padilla-Benavides, PhD
Impacto de enfermedades como el cancer en la sociedad hispanohablante

### 1/12/22
1:00-3:00
Tere Padilla-Benavides, PhD
Contribuciones de los metales de transicion en el desarrollo de cancer

### 1/13/22
10:00-11:00
Student presentations
TBD

11:00-12:00
Student presentations
TBD

### 1/13/22
1:00-2:00
Student presentations
TBD

2:00-3:00
Student presentations
TBD

### 1/14/22
10:00-11:00
Lorena Novoa-Aponte, PhD y Tere Padilla-Benavides, PhD
Aprendiendo a vivir con el tóxico: las bacterias y el cobre nos enseñan

11:00-12:00
Student presentations
TBD

### 1/14/22
1:00-3:00
Mauricio Comas-García, PhD y Tere Padilla-Benavides, PhD
¿Cómo utilizar los virus a nuestro favor? Estrategias de biologia molecular aplicadas a medicina e investigacion

### 1/17/22
10:00-11:00
Student presentations
TBD

11:00-12:00
Student presentations
TBD

### 1/17/22
1:00-2:00
Student presentations
TBD

2:00-3:00
Student presentations
TBD

### 1/18/22
READING PERIOD
NO CLASS

### 1/19/22
FINAL PROJECT
NO CLASS, ONLINE SUBMISSION

---

**How to be successful in MB&B 108Z**

1) Preparing to present a paper:
   - Perform a thorough search of potential papers of interest to present in class. Review them with your professor and ask many questions!
   - Include relevant literature and methodologies to give your audience a full understanding of the science discussed.
   - Use diagrams and illustrations to make it appealing to your audience. Test your own knowledge by drawing these illustrations from memory, without going back to the paper or the literature.
• You will challenge yourself to explain concepts to fellow students. Your goal is to accurately recall the course material, not simply be familiar with it when you are looking at the manuscript you will be presenting.

2) While listening to others presenting: Read the paper that will be discussed ahead of time. Prepare questions and comments for discussion

3) This is a class based on discussion and presentations in journal club style. Therefore, attendance is important.

4) Be respectful of all the presentations, comments, and questions

5) Attend all classes sessions on time, take notes, and ask questions and offer positive feedback of the science discussed

6) Questions are welcomed in class, in office hours, and with fellow students and by email.

7) Schedule office hours in preparation to your presentation. Let’s discuss the science!

**Time commitment**

While the exact time commitment for the class will vary individually and over the course of the winter, I recommend that you budget approximately three out-of-class hours for every class hour to complete the reading of the manuscript that will be discussed. When preparing to present your paper I recommend at least 5 hours of work to deliver a comprehensive discussion of the science. If you feel you need more time to prepare your presentation, I would encourage you to come speak with me.

There will be optional seminars where you will be invited to attend at different hours than those proposed for our class. Attendance to these and participation with questions and discussions will count as extra credit. See below.

**Course evaluation**

Your grade in MB&B 108Z will be determined based on the following:

• Oral presentation: 30%
• Powerpoint (visual) presentation: 20%
• Discussion and participation in classes: 20%
• Final project: 20%
• Attendance: 10%

The following table shows the relationship between letter grades and percentages:

<table>
<thead>
<tr>
<th>Highest</th>
<th>Lowest</th>
<th>Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.00 %</td>
<td>98.30 %</td>
<td>A+</td>
</tr>
<tr>
<td>98.29 %</td>
<td>95.00 %</td>
<td>A</td>
</tr>
<tr>
<td>94.99 %</td>
<td>91.70 %</td>
<td>A-</td>
</tr>
<tr>
<td>91.69 %</td>
<td>88.30 %</td>
<td>B+</td>
</tr>
<tr>
<td>88.29 %</td>
<td>85.00 %</td>
<td>B</td>
</tr>
<tr>
<td>84.99 %</td>
<td>81.70 %</td>
<td>B-</td>
</tr>
<tr>
<td>81.69 %</td>
<td>78.30 %</td>
<td>C+</td>
</tr>
<tr>
<td>78.29 %</td>
<td>75.00 %</td>
<td>C</td>
</tr>
<tr>
<td>74.99 %</td>
<td>71.70 %</td>
<td>C-</td>
</tr>
<tr>
<td>71.69 %</td>
<td>68.30 %</td>
<td>D+</td>
</tr>
<tr>
<td>68.29 %</td>
<td>65.00 %</td>
<td>D</td>
</tr>
</tbody>
</table>
### Oral presentation:

You will prepare a presentation based on the research paper of your interest and the utilization of a given gene technique and its scientific application.

Details for the duration of each presentation will be discussed the first day of class. There will be a time allocated for questions and discussion period following the conclusion of each presentation.

You will be graded based on the quality of your speech and deepness of the topic. Accuracy is essential; you need to understand the science being done. Do some research related the topics shown in the introduction of your selected paper. Be clear in stating rationales and hypothesis for the experiments performed and how these leads to certain conclusions. Dig in the methodologies that are presented and dissect them to the class. Become a thinker. Analyze the quality of the science, controls used, data presentation… Be the reviewer of the paper!

Late presentations will not be accepted. However due to the uncertainties of COVID19, we can make schedule arrangements if needed. PLEASE TALK TO ME AS SOON AS YOU FIND YOU HAVE A TIME CONFLICT. We are on this together; I am here to help you!

### Powerpoint (visual) presentation:

Communication is everything! Clarity and creativity of the images supporting your speech is essential. Your grade will be based on the way your visuals convey your message. Similarly to the oral presentation accuracy is essential. Be sure all the supporting materials you use are from scientifically sound resources.

Please upload your presentation in pdf format into Moodle or send by email 24 hours before your talk.

### Discussion and participation in classes:

One of the goals of this course is that you improve your Spanish communication and analytical skills. Ask questions, doubt of the science… How can you improve it? Quality and frequency of participation and thoroughness of analyses will be considered. Think critically and analytically to solve problems or improve research presented. The goal of these sessions and this type of active learning is to encourage a deeper understanding of biomedical concepts.

### Final project:

The final project will consist of a written paper in Spanish related to one of the topics discussed in class that was of most interest to you. The paper will consist of three pages, single space, arial 11 font. We will define the expectations of this project and answer questions during the first class. The deadline for submission is by 1/19/22 midnight.

### Attendance:
This class is based on discussion and scientific criticism that happens in real life when attending to seminars. You need to be there to express your opinions and ask your questions.

Attendance matters!

There are 20 sessions scheduled for our class for the Winter of 2022. The 10% will be calculated at the end of the winter term according to the number of sessions you attend.

**Additional help**

Throughout this semester, we will cover a large amount of innovative primary research material. My goal is to make the information and science being released in real time interesting and easy to understand and help you increase your analytic and communication skills. This material will also require hard work and review. If there comes a time when you are overwhelmed and frustrated, do not give up. Several resources are available to you on campus, such as Peer Tutoring, Stem Zone and Study Groups. Please use them, come see me if you need assistance getting connected to these resources or to discuss the science.

**MB&B 108Z Course policies**

**Honor code**

All students of Wesleyan University are responsible for knowing and adhering to the Honor Code of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council – Office of Student Affairs. Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). The Honor Code Office has more information.

https://www.wesleyan.edu/studentaffairs/facguide/honor.html

**Covid-19 Code of Conduct**

To protect your health and safety, the health and safety of instructors and staff, and the health and safety of your peers, all students must understand and adhere to the University’s Covid-19 Code of Conduct (https://www.wesleyan.edu/healthservices/coronavirus/). Students are encouraged to review the code of conduct regularly to stay up to date on the current code. The course instructor reserves the right to refuse to allow any student into the classroom who does not adhere this code of conduct.

**Technology policy**

You are expected to be present and attentive during all class periods. You will need your laptops/tablets for use during class to take notes and complete course related activities. You may not, however, be utilizing your computer for non-course related purposes during class (including social media/unrelated web browsing).

Cell phone use is discouraged except for use in class related activities. If I notice you are abusing this, I reserve the right to ask you to leave the zoom room and you will not be allowed to re-enter the zoom discussion.
If you have any questions or concerns regarding this, please do not hesitate to ask.

Winter weather policy

This class will be fulfilled by zoom. You do not need to be on campus to be present at the zoom room. In case you need to be on campus and in the event of inclement weather, everyone should use his or her best judgment regarding travel to and from the University. Safety should be the main concern.

If you cannot get to class because of adverse weather conditions, please contact me via email as soon as possible.

Similarly, if I am unable to establish a zoom connection for class, I will notify you as soon as possible via email.

Wesleyan university policies and procedures

Accommodations for students with disabilities

Wesleyan University is committed to ensuring that all qualified students with disabilities are afforded an equal opportunity to participate in, and benefit from, its programs and services. To receive accommodations, a student must have a disability as defined by the ADA. Since accommodations may require early planning and generally are not provided retroactively, please contact Accessibility Services as soon as possible. If you have a disability, or think that you might have a disability, please contact Accessibility Services in order to arrange an appointment to discuss your needs and the process for requesting accommodations. Accessibility Services is located in North College, rooms 021/022, or can be reached by email (accessibility@wesleyan.edu) or phone (860-685-5581).

Religious observances

Religious observances require that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required assignments/attendance. If this applies to you, please speak with me directly as soon as possible at the beginning of the term.

Zoom room behavior

Students and faculty each have responsibility for maintaining an appropriate and respectful learning environment.

Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran’s status, sexual orientation, gender, gender identity and gender expression, age, ability, and nationality.

Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. For more information, see the policies on the student code.

FERPA

Wesleyan University’s statement of compliance with the 1974 Federal Family Educational Rights and Privacy Act states: “It is Wesleyan University’s policy to keep the records of
Wesleyan students confidential. Wesleyan will not disclose other than “directory information” about students to people outside the University unless the student has given written consent or in certain other cases permitted by law and University policy. The Family Educational Rights and Privacy Act of 1974 (FERPA) and University Policy protect the privacy of student education records and generally limit access to those records by third parties.” To protect your privacy in regards to grades in this course, scores on graded assignments such as homework and exams will not be placed on the front of the assessment, but rather on the inside of the front page or back of the assessment.

**DISCRIMINATION AND HARASSMENT**

Wesleyan University is committed to maintaining a positive learning, working, and living environment. Wesleyan will not tolerate acts of discrimination or harassment based upon Protected Classes or related retaliation against or by any employee or student. For purposes of this Wesleyan policy, “Protected Classes” refers to race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression, veteran status, political affiliation or political philosophy. Individuals who believe they have been discriminated against should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Student Conduct (OSC) at 303-492-5550.