Mathematical Biology II

1. **Course Description:** Mathematical models of spatial processes in biology including pattern formation in the embryo and during tissue differentiation, applications of traveling waves to population dynamics, epidemiology, and chemical reactions, and models for neural patterns.

2. **Prerequisites:** “C” or better in Math 5110/6810.

3. **Lectures:** Tuesdays and Thursdays 9:10-10:30am in JWB 308

4. **Instructor:** Sean Lawley  
   - Email: lawley@math.utah.edu  
   - Office: LCB 306  
   - Office Hours: Tuesdays 10:30-11:30am, or by appointment

5. **Website:** https://utah.instructure.com (Canvas)

6. **Email:** You are expected to check your official university email address daily. I frequently email important information. I also suggest setting it up so that Canvas automatically emails you when I post things on Canvas.

7. **Textbooks:** Class notes are intended to be sufficient, though supplementary notes will be posted online.

8. **Grading Policy:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>75%</td>
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<tr>
<td>Final Project</td>
<td>25%</td>
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9. **Homework:** Homework assignments will be posted online. Homework will not be accepted late. You may consult other students about homework problems, but only after you have thought hard about the problems yourself. Furthermore, each student must turn in an individual assignment written in his or her own words.

10. **Exams:** There will be no exams.

11. **Final Project:** A large component of this course is a project. The project includes a presentation to the class during the final weeks of the semester and a written report due at the time of the presentation.
12. **ADA Statement:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to the Center for Disability Services.

13. **Safety Statement:** The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.