

ECS129: Computational Structural Bioinformatics Winter 2024

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Information sheet

Class Web page: <http://www.cs.ucdavis.edu/~koehl/Teaching/ECS129/index.html>

Check here for announcements, handouts (pdf and ppt), recommended readings, quizzes, assignments, etc.

Lectures: Tue-Thu, 9:00 am – 10:20 am, **Roessler Hall 55**

Discussion: Tue 8:00- 8:50 am, Art 217

Office hours: Wed 4-6 pm Kemper Hall, Room 3059; also by appointment (send me an e-mail)

Contacts: koehl@cs.ucdavis.edu

I answer to ALL e-mails. I do NOT guarantee however that I answer PROMPTLY...

Attendance:

- You are expected to attend lectures, and you are responsible for the material discussed in class.
- Discussions are optional. I will be there, to discuss class materials and papers.

Exams:

There will be one midterm, three projects, and one final.

Grading: 20% midterm, 50% projects (project 1 10%, projects 2 and 3 each 20%) 30% final.

Course Description:

- I. Introduction: top challenges in Bioinformatics
- II. Bio-molecular structures
 - Nucleic acids
 - Proteins
- III. Sequence comparison
- IV. RNA structure prediction
- V. Protein structure prediction
- VI. Simulations in structural biology