

# Basin Analysis (G480/580)

## *Spring 2024*

**Lecture/Lab:** M/W 11:30-12:35, Cramer Hall (CH) 1

**Recommended:** Sedimentology and Stratigraphy (G435)

**Course Description:** Basin analysis is the integrated study of sedimentary basins answering the how and why of their formation. This course covers mantle, tectonic, and erosional processes that together, shape basin geometries as expressed through stratigraphy, understood through outcrop, well log, seismic, and potential fields data.

**Instructor:** John Bershaw

Office: Cramer Hall 17G

Email: [bershaw@pdx.edu](mailto:bershaw@pdx.edu)

Tel: 503-725-3378

Office Hours: Monday and Wednesday after class or setup an appointment.



**Textbook:** OPTIONAL: Basin Analysis, 2<sup>nd</sup> or 3<sup>rd</sup> Edition, by Allen and Allen  
OPTIONAL: Isostasy and Flexure of the Lithosphere, by Tony Watts

**Field Trip:** Multi-day/night in eastern Oregon (Weekend of May 10th)

**Exams:** There will be a Mid-Term. Last year, the Final Exam was take-home / open book.

**Grading:** Labs: 50%; Exams / Projects: 30%; Field Trip Report: 10%; Quizzes: 10%

**Late Policy:** I will accept coursework up to midnight on the date due. I will count any physical copies received at my next arrival at PSU as on-time. After that, every day late is 5% off up to a maximum of 40% off. I will accept all coursework (except exams) until the last day of class.

**Graduate Students:** A presentation will be given on the field trip on a topic of mutual interest. Details will be forthcoming.

**Reporting Sexual Harassment / Sexual Violence:** As an instructor, one of my responsibilities is to help create a safe learning environment for my students and for the campus as a whole. Please be aware that as a faculty member, I have the responsibility to report any instances of sexual harassment, sexual violence and/or other forms of prohibited discrimination. If you would rather share information about sexual harassment, sexual violence or discrimination to a confidential employee who does not have this reporting responsibility, you can find a list of those individuals here: [www.pdx.edu/sexual-assault/get-help](http://www.pdx.edu/sexual-assault/get-help). For more information about Title IX please complete the required student module Creating a Safe Campus in your D2L.

**Academic Misconduct:** Academic misconduct includes cheating, plagiarism, and all forms of misrepresentation in academic work, and violates the Student Code of Conduct at Portland State University. I have a zero tolerance policy for cheating and plagiarism in this class, and instances of cheating will be dealt with accordingly.

**Access and Inclusion for Students with Disabilities:** PSU values diversity and inclusion; we are committed to fostering mutual respect and full participation for all students. My goal is to create a learning environment that is equitable, useable, inclusive, and welcoming. If any aspects of instruction or course design result in barriers to your inclusion or learning, please notify me. The Disability Resource Center (DRC) provides reasonable accommodations for students who encounter barriers in the learning environment. If you have, or think you may have, a disability that may affect your work in this class and feel you need accommodations, contact the Disability Resource Center to schedule an appointment and initiate a conversation about reasonable accommodations. The DRC is located in 116 Smith Memorial Student Union, 503-725-4150, [drc@pdx.edu](mailto:drc@pdx.edu), <https://www.pdx.edu/drc>.

If you already have accommodations, please contact me to make sure that I have received a faculty notification letter and discuss your accommodations. Students who need accommodations for tests and quizzes are expected to schedule their tests to overlap with the time the class is taking the test.

For information about emergency preparedness, please go to the Fire and Life Safety webpage (<https://www.pdx.edu/environmental-health-safety/fire-and-life-safety>) for information.