

## BCA 2024 Summer Lectures Information

**Structure:** The course is split into 4 subjects: Algebra, Combinatorics, Geometry, and Number Theory. Each subject will meet once a week for four weeks. The format of each class is a 1 hour lecture and a 30 minute problem session, with office hours (where you can come and ask questions about the material or problem sets) for all classes each week. An optional (but strongly recommended) problem set will be assigned each week for each class and will be graded by the lecturers and class assistants. Students can choose any number of subjects, depending on availability and desired rigor.

### **Dates/Time:**

**Algebra:** taught by Andrea Chen ([andche25@bergen.org](mailto:andche25@bergen.org)), Sundays at 3:00-4:30 PM

**Combinatorics:** taught by Jeremy Lee ([jerlee25@bergen.org](mailto:jerlee25@bergen.org)), Thursdays at 3:00-4:30 PM

**Geometry:** taught by Gabriele Herr ([gabher26@bergen.org](mailto:gabher26@bergen.org)), Wednesdays at 3:00-4:30 PM

**Number Theory:** taught by Daniel Gilman ([dangil25@bergen.org](mailto:dangil25@bergen.org)), Sundays at 10:00-11:30 AM

Classes start on the week of 8/4-8/10 and will run until the week of 8/25 to 8/31.

Specific times for office hours will be determined by student preferences after sign-ups have been finalized.

**New this year:** We might be running an in person contest at BCA, meant to mock rounds seen in various high school contests, such as HMMT and ARML. Please indicate if you are interested in the form below, as it will only happen if there is enough student interest.

**The link to sign up is here:** <https://forms.gle/uRnJ26AAV1oAaNNq9>

Please contact us at [andche25@bergen.org](mailto:andche25@bergen.org) or [gabher26@bergen.org](mailto:gabher26@bergen.org) with any questions or concerns!