

Day 1: Exploration and Analysis

9:00 - 9:30 AM: Welcome & Kickoff

- Introductions and overview of hackathon goals & structure
- Walkthrough of SEER dataset (create accounts for those who have not already)
 - Breast cancer, v. other cancer types
- Discuss abstract submission opportunities (ASCO, AACR, etc.)
- Discuss team selection, different roles, and goals (publication focused v. experience)
 - Team size range: 3-5
 - Blue name tags for coding background, red for clinical background
 - Split room in half, so groups can cluster based on end goal

9:30 AM - 10:00 AM: Team Formation

- Form teams based on interests and experiences
- Ensure a mix of roles (clinical advisors, coders, MPH/biostats, undergrad ML)
- Team brainstorming: defining cancer type, research type, and methodology

10:00 - 11:30 AM SEER Data Deep Dive (Nikhil)

- Review key SEER variables, coding structure, suggested notebooks, and dataset limitations
- Guided generation of basic descriptive statistics to assess research question feasibility

11:30 AM - 12:30 PM: Lunch Break

12:30 PM - 1:30 PM: Team Check-ins & Mentorship (Coding Focused)

- Groups share initial progress and research questions with mentors
- Troubleshooting and resource guidance
- Identify faculty mentors interested in sponsoring projects for publication

1:30 PM - 4:30 PM: Data Cleaning and Exploratory Analysis

4:30 PM - 5:00 PM: Team Check-ins & Wrap-Up

- Share progress and challenges
- Outline goals for Day 2 (analysis + abstract drafting)

Day 2: Abstract Development and Presentations

9:00 AM - 11:00 AM: Statistical Analysis and Visualization

- Conduct analyses (survival, incidence, disparities, etc.)
- Create tables, figures, and preliminary findings
- Mentors check in with each team for updates

11:00 AM - 12:00 PM: Abstract Writing Workshop (Sarah)

- Abstract structure: backgrounds, methods, results, conclusion
- Writing tips, formatting guidelines, and submission advice

12:00 PM - 1:00 PM: Lunch Break

1:00 PM - 3:30 PM: Abstract Drafting & Refinement

- Teams write and refine abstracts with mentor guidance
- Incorporate tables/figures into draft

3:30 PM - 4:00 PM: Final Presentations

- Each team presents (3-5 mins)
 - 3-4 mins: abstract & key findings
 - 1-2 mins: Q&A

4:00 PM - 4:30 PM: Next Steps & Closing

- Awards and recognitions for presentations
- Discuss options for abstract submission and ongoing mentorship
- Encourage teams to connect with faculty sponsors

Time Commitments:

- Medical Students:
 - Saturday (Day 1): 9 - 11:30 AM
 - Sunday (Day 2): 11 AM - 4:30 PM
- Coders:
 - Saturday (Day 1): 9 AM - 5:30 PM
 - Sunday (Day 2): 9 AM - 4:30 PM