UNM SCHOOL of MEDICINE | DEPARTMENT OF INTERNAL MEDICINE
Translational Informatics Division

Independent Study in Biomedical Data Science

Project templates available in bioinformatics, cheminformatics, systems biology and other areas.

(BIOMED 505: Special Topics in Biomedical Sciences, "Ind Study Biomed Data Sci")

https://datascience.unm.edu/isbdscourse/

Banner image % NIH NCATS.

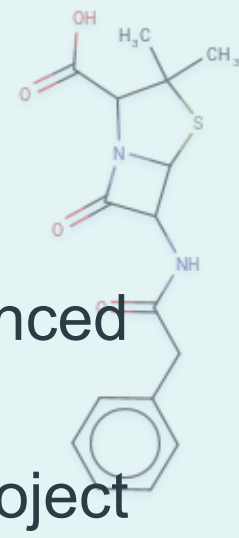
Prerequisites

- Preliminary research plan instructor approval
- Project advisor (may be faculty, staff, or external)
- Coursework in biology, chemistry, computer science, etc. as needed

Project areas and ideas

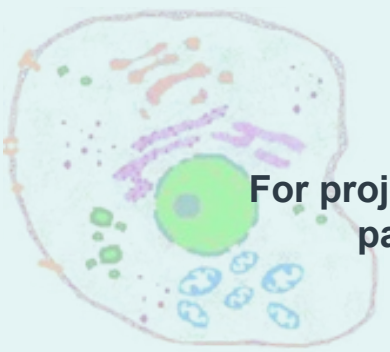
- Bioinformatics
- Cheminformatics
- Genomics
- Drug discovery
- Clinical informatics
- Public health
- Machine learning
- Natural language processing
- Data visualization
- Web dbs and tools
- *...and many others!*

Introduction



This course involves designing, executing, and presenting a independent research project, intended for graduate and advanced undergraduate students.

1. 1-3 credits, depending on project scope.
2. Students must submit a research plan for instructor approval prior to registration.
3. Students will execute the research project independently, with limited supervision.
4. Major deliverables:
   a. Final Report
   b. Virtual poster presentation
   c. Participation via online forum



Course leadership:

Instructor: Jeremy Yang, PhD, Research Associate Professor
Lead Advisor: Vincent Metzger, PhD, Post-doctoral Fellow
Course Administrator: Tonya Morgan, Division Administrator

For project ideas, templates, examples, and help finding a project advisor, visit our course home page at https://datascience.unm.edu/isbdscourse/ or contact jjyang@salud.unm.edu