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/

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 independent study course involves designing, executing, and presenting a research project, reflecting the focus on independent research appropriate for graduate studies.

1. 1-3 credits, depending on project scope.
2. The student must submit a research plan subject to instructor approval prior to registration.
3. The student 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:

Director: Christophe Lambert, PhD, Professor  
Instructor: Jeremy Yang, PhD, Senior Research Scientist  
Lead Advisor: Vincent Metzger, PhD, Post-doctoral fellow  
Course Administrator: Serena Henderson, Student Assistant

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