PROFESSIONAL APPLICATIONS OF DATA SCIENCE GRADUATE ACADEMIC CERTIFICATE

All required coursework must be completed with a grade of B or better (O-10-b). Students should work with their advisors for potential substitution waivers. Courses to total 12 credits for this certificate.

Student Learning Outcomes

Upon completion of the certificate, students will be able to:

• Use open-source software to reproducibly manage, analyze, and visualize large, complex, and noisy data sets.
• Practice high quality and ethical data stewardship.
• Understand and execute data exploration.
• Effectively communicate data driven insights to experts and non-experts.
• Demonstrate their skills with an online portfolio of analyses and visualizations relevant to their field of specialization.