

XPER - XFOUNDRY

XPER433 Xperiment to Address Grand Challenges (3 Credits)

Students will collaborate with each other using creative approaches to address complex real-world challenges. You will develop skills for interdisciplinary teamwork, problem-solving, and idea testing through hands-on experiences and guided discussions and reflections. By the end, you will form a multidisciplinary team of co-innovators ready to design a solution to a well-defined, real-world problem.

Restriction: Permission required by the xFoundry Program.

Additional Information: For more information, and to request permission to enroll, visit <https://xfoundry.umd.edu/xperience>.

XPER444 Xperiment II: Bringing Your Idea to Life (3 Credits)

Students will work in teams to design, develop, and iterate on solutions for the grand challenge problem. This course aims to equip students with the strategic skills essential for the successful design and implementation of effective solutions. They will explore methodologies for validating the feasibility and viability of proposed solutions, with a strong emphasis on conducting thorough customer feedback analysis to refine and validate product concepts. By the end of this course, students will have a working and tested prototype of their solution, showcasing their applied knowledge and practical skills in addressing complex challenges. This is the second course in xFoundry's signature academic program.

Restriction: Must be in the Xperience academic program; and permission of department.

Additional Information: For more information on Xperiment, visit: xfoundry.umd.edu/programs/xperience/xperiment.

XPER455 Xperiment III: Scaling Your Grand Challenge Solution (3 Credits)

Student teams will refine their grand challenge solutions with feedback from mentors, design testing frameworks, and analyze results to guide decision-making. They will explore advanced marketing strategies, craft compelling messages and apply insights from successful campaigns to enhance project visibility. Additionally, the course emphasizes the necessary communication skills for conveying goals and outcomes alongside insights into revenue models for sustainable financial viability. By the end of this course, students will have designed a Minimum Viable Product

Restriction: Must be a student accepted into xFoundry's Xperiment Academic Track and permission of department.