THE A. RICHARD NEWTON LECTURE SERIES

IndEng 95 | IndEng 195 | IndEng 295

The Newton Lecture Series allows students to explore entrepreneurship, innovation, and career opportunities. The course boasts a changing roster of innovators, entrepreneurs, and Silicon Valley executives and is an entry to the Certificate in Entrepreneurship and Technology.

APPLIED DATA SCIENCE WITH VENTURE APPLICATIONS

IndEng 135 | IndEng 290

Data-X a technical course that teaches students to use foundational mathematical concepts and current computer science tools to create data-related applications and systems for real world problems. Computer science tools for this course include Python with NumPy, SciPy, pandas, SQL, NLTK, and TensorFlow.

TECHNOLOGY FIRM LEADERSHIP

IndEng 171

This course will immerse students in technology, entrepreneurial, and leadership concepts, mindsets, and behaviors. Students will learn how to lead, grow, and improve to ensure their organizations are optimally managed and led.

CHALLENGE LAB

IndEng 185

In a competition-based format, students work in cross-discipline lean start-up teams vying to create innovative products. Teams will navigate realistic weekly challenges introduced through case studies. They will understand real-world constraints, use rapid iterative build, and validate development methods. Through frequent interaction with the sponsors and mentors, student teams will develop a working prototype and a “white paper.”

Spring semester topics: Alternative Meat, Sports Tech, Blockchain

PRODUCT MANAGEMENT

IndEng 186

This course teaches students the necessary product management skills to become a product manager. Students will learn the attributes of great product managers, the tools to reduce risk and cost while accelerating time to market, product life cycle, stakeholder management, and effective development processes.

PRODUCT DESIGN

IndEng 190E

This is a project-based course that uses a learn-by-doing approach to build product design and management skills. Using Design Thinking tools and methods, students will uncover core user need and specify functional requirements for a new product or service.

LEAN TRANSFER

IndEng 190E 002 | INDENG 290 001

The Lean Transfer course provides hands-on learning for building deep technology startups. Based on Steve Blank’s Lean Launchpad courses taught at Haas and COE, participants will form teams around existing UC Berkeley IP.

MANAGEMENT OF TECHNOLOGY INNOVATION PROGRAM

IndEng 290

The purpose of this course is to prepare scientists, researchers, and engineers at Berkeley to be business-literate and learn how to to their knowledge can be applied to current industry trends, using the Berkeley Method of Entrepreneurship.

COLLIDER SPRINTS

IndEng 190C

Collider Sprints are projects designed to connect students with thought leaders in industry and academia. In an effort to find the next emerging fields in tech, Collider Sprint topics are proposed by industry or academic research centers and designed to challenge students to develop innovative solutions that lead to industry or technology advancement, new venture creation, or measurable social impact. Mentoring by industry experts provides students valuable insight into new markets and opportunities while expanding personal and professional networks. All Collider Sprints are team-based and project-driven, providing an opportunity to sharpen teamwork and leadership skills in a multidisciplinary environment.