TECHNOLOGY ENTREPRENEURSHIP (TE)

TE Class Schedule (https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/TE)

Courses

TE 100  Introduction to Innovation, Leadership and Engineering Entrepreneurship  credit: 1 Hour.
Introduction course to innovation, leadership, and engineering entrepreneurship as a field of study. The student will learn about innovation and leadership, professionalism and ethics, hear from guest entrepreneurial lecturers, and tour innovative/entrepreneurial spaces. While working in small teams, students will pitch a problem, develop solutions, learn to work as a team, and hone their written and verbal presentation skills.

TE 150  Entrepreneurship Foundations  credit: 3 Hours.
Introduction of new business formation and global entrepreneurship concepts through group projects and real-world experience. Discussion focus on defining an entrepreneur, the impact of innovation and entrepreneurship, clusternomics and societal impact, market scalability, team dynamics, product and technology development, competitive landscape, building a personal mission statement and assessment, skill competencies, and constructing dashboards. Prerequisite: This course is restricted to Innovation LLC students.

TE 200  Introduction to Innovation  credit: 1 Hour.
Fundamental concepts of entrepreneurship, creativity and innovation will be explored within the context of new and existing businesses. Creative thinking and inventive problem solving will be emphasized.

TE 230  Design Thinking/Need-Finding  credit: 3 Hours.
Same as ARTD 230. See ARTD 230.

TE 250  From Idea to Enterprise  credit: 2 Hours.
Fundamentals of technology entrepreneurship and critical areas of the entrepreneurship process: creating a successful startup and transforming it into a sustainable business, validating an idea and taking it to market, evaluation of new ideas, forming high-performance teams, and financing a technology-based startup. Field trips to local startups, businesses, the University Research Park, and Enterprise Works incubator included along with in-depth case studies, and a hands-on class project.

TE 298  Special Topics I  credit: 1 to 3 Hours.
Subject offerings of innovation, creativity, technology and entrepreneurship intended to augment the existing curriculum. See class schedule or departmental course information for topics and prerequisites. May be repeated in the same or separate term if topics vary.

TE 333  Creativity, Innovation, Vision  credit: 4 Hours.
Personal creativity enhancement via exploration of the nature of creativity, how creativity works, and how to envision what others may not. Practice of techniques and processes to enhance personal and group creativity and to nurture a creative lifestyle. Application to a major term project providing the opportunity to move an idea, product, process or service from vision to reality.

TE 345  Design and Innovation  credit: 2 Hours.
Same as ECE 345. See ECE 345.

TE 360  Lectures in Engineering Entrepreneurship  credit: 1 Hour.
Fundamental concepts of entrepreneurship and commercialization of new technology in new and existing businesses. Guest speaker topics vary, but typically include: evaluation of technologies and business ideas in genera; commercializing new technologies; financing through private and public sources; legal issues; product development; marketing; international business issues. May be repeated in separate terms to a maximum of 2 hours, if topics vary; instructor approval required. Prerequisite: For undergraduate students only.

TE 398  Special Topics II  credit: 1 to 4 Hours.
Subject offerings of innovation, creativity, technology and entrepreneurship intended to augment the existing curriculum. See class schedule or departmental course information for topics and prerequisites. May be repeated in the same or separate term if topics vary.

TE 401  Developing Breakthrough Projects  credit: 1 to 4 Hours.
Project-based exploration with teams of students working together in a large innovation and entrepreneurial context. Encourage development of innovative, leadership, and entrepreneurial skill sets, including financing, marketing, sales, operations, business plans, and management. 1 to 4 undergraduate hours. 1 to 4 graduate hours. May be repeated.

TE 450  Startups: Inc, Fund, Contracts, IP  credit: 3 Hours.
Explore legal tools used in constructing and operating companies. Topics include: issues with business formation, intellectual property, NDA, contracts, and other corporate legal issues impacting startups. 3 undergraduate hours. 3 graduate hours.

TE 460  Lectures in Engineering Entrepreneurship  credit: 1 Hour.
Fundamental concepts of entrepreneurship and commercialization of new technology in new and existing engineering and high-tech businesses. Guest speaker topics vary, but typically include: evaluation of technologies and business ideas in genera; commercializing new technologies; financing through private and public sources; legal issues; product development; marketing; international business issues. 1 undergraduate hour. 1 graduate hour. May be repeated in separate terms to a maximum of 2 hours, if topics vary; instructor approval required. Credit is not given for both TE 360 and TE 460.

TE 461  Technology Entrepreneurship  credit: 3 Hours.
Product design, marketing, financials, and the general business planning preparation required for start-up companies. Many start-up companies have emerged from this course. Students can work in teams (members can be from outside of class) or individually. Students without a particular idea may be provided an option to participate in PIRL (Product Innovation Research Lab) with the School of Art & Design, but spots are limited. 3 undergraduate hours. 3 graduate hours.

TE 466  High-Tech Venture Marketing  credit: 2 Hours.
Cornerstone marketing concepts for innovators and engineers to enable analysis of products and technologies from a marketing perspective: engineering product development and adoption life cycle; objectives and strategies; marketing management; communication skills; sales process and tactics; special considerations for new high-tech engineering products and innovations. 2 undergraduate hours. 2 graduate hours. Credit is not given for both ENG 466 and BADM 365.

TE 497  Independent Study  credit: 1 to 4 Hours.
Advanced projects related to Technology Entrepreneurship. Approved for S/U grading only. 1 to 4 undergraduate hours. 1 to 4 graduate hours. May be repeated to a maximum of 3 undergraduate hours or 4 graduate hours in the same term if topics vary; may be repeated for an unlimited number of hours in separate terms. Prerequisite: Consent of instructor.
TE 498  Special Topics III  credit: 1 to 4 Hours.
Subject offerings of innovation, creativity, technology and entrepreneurship intended to augment the existing curriculum. See class schedule or departmental course information for topics and prerequisites. Additional fees may apply. See Class Schedule. 1 to 4 undergraduate hours. 1 to 4 graduate hours. May be repeated in the same or separate term if topics vary.

TE 560  Managing Advanced Technology I  credit: 1 Hour.
Business perspective of managing advanced technology in industry: strategic context of advanced technology; analytical financial tools used to estimate its potential value; legal concepts important in its management; interpersonal issues related to leading and advocating on behalf of advanced technology groups. 1 graduate hour. No professional credit.

TE 565  Technology Innovation & Strategy  credit: 2 Hours.
Concepts and frameworks for analyzing how firms can create, commercialize and capture value from technology-based products and services. Business, commercialization, and management aspects of technology. Emphasis on reasons that existing firms or startups which have successfully commercialized products or services fail to sustain their success as technology changes and evolves. 2 graduate hours. No professional credit. Prerequisite: STAT 400.

TE 566  Finance for Engineering Mgmt  credit: 2 Hours.
Cornerstone financial concepts for engineering management to enable analysis of engineering projects from a financial perspective: income statements; the balance sheet; cash flow statements; corporate organization; the time value of money; net present value; discounted cash flow analysis; portfolio theory. 2 graduate hours. No professional credit.

TE 567  Venture Funded Startups  credit: 1 Hour.
Concepts, tools, and language used by venture capitalists (VCs). Venture-scale opportunity assessment and articulation; venture capital financing and valuation; deal structure; term sheets; financial plans for startups; customer development and marketing; product iterations; sales execution. 1 graduate hour. No professional credit. Prerequisite: TE 566.

TE 598  Special Topics IV  credit: 1 to 4 Hours.
Subject offerings of innovation, creativity, technology and entrepreneurship intended to augment the existing curriculum. See class schedule or departmental course information for topics and prerequisites. May be repeated in the same or separate terms for unlimited graduate hours if topics vary.