SCHOOL OF ENGINEERING & APPLIED SCIENCE (SEAS)

Explanation of Course Numbers

- Courses in the 1000s are primarily introductory undergraduate courses.
- Those in the 2000–4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work.
- Those in the 6000s and 8000s are for master’s, doctoral, and professional-level students.
- The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office.

SEAS 0920. Continuing Research - Masters. 1 Credit.
SEAS 0930. Examination Preparation. 0 Credits.
SEAS 0940. Continuing Research - Doctoral. 1 Credit.
SEAS 1001. Engineering Orientation. 0-1 Credits.
Introduction to careers in engineering and computer science, University resources, and computer skill development. Emphasizes teamwork skills by applying them to several design projects. (Fall).

SEAS 4800. Special Topics. 1-3 Credits.
Special topics related to new technology and advances, experimental offering on new course topics and applications. Topic to be announced in the schedule of classes. May be repeated for credit provided the topic differs. Recommended background: Undergraduate student. (Fall, spring, and summer).

SEAS 6100. Innovation and Technology. 3 Credits.
Introduction to design and management of technology; Law of Diffusion of Innovation; identification of fundamental engineering design limits; Sustained vs. disruptive engineering and technology, best practices from innovators and visionaries; engineering solution at the prototype state; technology impact on society; benefits of intellectual property protections; transformative technology and assessment from a holistic and global viewpoint; application of the lean start-up approach to real-world challenges including sustainability.

SEAS 6200. Launching Technical Ventures. 3 Credits.
Fundamentals of building an organization and the capabilities necessary to launch and nurture early-stage ventures. Lean start-up management practices, with insights and lessons learned to avoid common mistakes associated with launching new businesses. (Spring).

SEAS 6800. Special Topics. 1-3 Credits.
Experimental offering of new course topics and applications related to advances in technology. Topic announced in the Schedule of Classes. May be repeated for credit provided the topic differs. (Fall, spring, and summer).