

W.P. CAREY ENTREPRENEURSHIP AND MANAGEMENT, MINOR

<https://engineering.jhu.edu/cle/academics/undergraduate-studies/entrepreneurship-and-management-minor/>

The W.P. Carey Entrepreneurship & Management (E&M) program offers Johns Hopkins Arts & Sciences, Engineering, and Peabody students a broad array of courses designed to equip them to lead in professional and academic arenas. Some students simply take a course or two. Many choose to fulfill the seven-course E&M minor, pairing it with their engineering, liberal arts, or public health major. The minor's four core courses, Foundations of American Enterprise, Financial Accounting, Reasoning with Data (or any statistics course 200-level or higher) and a communications course (either Professional Writing and Communication or Oral Presentations), provide a strong foundation in the fundamentals of entrepreneurship. Students then complete two upper-level courses, and a capstone course to fulfill the minor. Entrepreneurship & Management courses are also open to students who choose not to declare the minor.

The minor in entrepreneurship and management focuses on leadership and management from a multidisciplinary viewpoint with a quantitative emphasis. The program, part of the Center for Leadership Education (<https://e-catalogue.jhu.edu/engineering/leadership-education/>), offers students a diversified learning experience that emphasizes the concepts, practices, and skills necessary for effective leadership as managers and entrepreneurs in the public and private sectors.

The primary goal of the program is to provide Johns Hopkins students with the knowledge and skills to become effective leaders and entrepreneurs. Individuals with excellent technical training and abilities often move into management positions or start new ventures. As their careers progress, they will be better prepared for success if they have the ability to understand financial reports, interpret statistical data, organize and effectively lead a team, design strategy, analyze and correct problems in the firm's operations, and understand the dynamics of the marketplace. Thus, the program will help prepare students for entrance into a professional degree program or graduate school; move more quickly into management positions; start new ventures; or pursue careers in finance and business.

Goal of the Capstone Experience

Johns Hopkins University's Center for Leadership Education (CLE) capstone experience serves as the culminating academic project for students, offering an opportunity to integrate and apply the knowledge and skills they have acquired in their CLE courses. This capstone project is designed to address a real-world problem, allowing students to demonstrate their mastery of a specific subject area while honing essential skills for their professional careers. By engaging in this hands-on, practical experience, students deepen their technical expertise in entrepreneurship, research, and analysis. They also demonstrate critical thinking, problem-solving, and communication abilities—skills that are vital for success in today's complex, fast-paced professional environments.

The capstone project is a comprehensive, interdisciplinary experience that challenges students to engage in problem discovery, a key focus of

CLE's curriculum. Students at JHU are taught to navigate the boundaries of uncertainty, searching for previously un-articulated problems that are worth solving. The CLE capstone experience encourages innovation and provides students with an opportunity to use the tools they acquired in coursework to analyze and address complex, real-world challenges. To complete the capstone project, students use quantitative reasoning, systems thinking, with a focus on approaching problems from multiple perspectives. They collaborate effectively with diverse teams that include other students and external stakeholders.

The capstone experience also emphasizes the importance of effective communication. Students practice articulating their ideas and solutions clearly, both in writing and in verbal presentations. This not only illustrates their ability to convey complex concepts to a wide range of audiences but also prepares them to lead and succeed in entrepreneurial ventures and professional settings.

CLE's curriculum is specifically designed to teach students how to lead with innovation, using principles of sustainability and entrepreneurship to drive impactful solutions. Ultimately, the CLE capstone project is an experiential learning opportunity that allows students to apply what they have learned in the classroom to real-world scenarios and to demonstrate the entrepreneurship, leadership, analytical, and communication skills that they have acquired, ensuring they are not only well-prepared but are also poised to be effective innovators and leaders in their respective fields.

The information below describes the academic requirements for students entering JHU as degree-seeking students in Fall 2025. Students who entered JHU as degree-seeking students prior to Fall 2025 should view the appropriate archived catalogue (<https://e-catalogue.jhu.edu/archive/>).

The minor in E&M is designed to organize the innovative spirit and to apply management techniques applicable to a start-up or existing business. The minor requires 21 credits. Grades of C- or higher are required. A maximum of one Satisfactory/Unsatisfactory (S/U) grade may be applied to the Core Courses, Upper-Level Electives, or Capstone Course requirements. Details of these requirements are as follows:

CORE COURSES

Code	Title	Credits
EN.660.105	Foundations of American Enterprise	3
or EN.660.250	Identifying and Capturing Markets	
EN.660.203	Financial Accounting	3
EN.660.207	Reasoning with Data ¹	3
EN.661.110	Professional Writing and Ethics	3
or EN.661.250	Oral Presentations	
Total Credits		12

¹ Students substitute any statistics course 200 level or higher. Examples of the statistics courses: AS.230.205 Introduction to Social Statistics, AS.280.345 Public Health Biostatistics, EN.553.211 Probability and Statistics for the Life Sciences, EN.553.311 Intermediate Probability and Statistics, and EN.553.430 Mathematical Statistics.

UPPER-LEVEL ELECTIVES

Code	Title	Credits
Complete two courses from the following: ^{1,2}		
EN.520.498	Capstone Design Project I	3
EN.540.309	Product Design Part 1	3

EN.580.405	Radical Innovation in BME	3
EN.660.320	Communicating with Data: Analysis, Visualization, Narratives	3
EN.660.322	Decision Analytics	3
EN.660.332	Leadership Theory	3
EN.660.340	Management Theory and Practice	3
EN.660.352	New Product Development	3
EN.660.407	Negotiation and Conflict Resolution	3
EN.660.408	Innovation and Entrepreneurship for Energy	3
EN.660.459	Entrepreneurial Spirits	3
EN.660.463	Engineering Management & Leadership	3
EN.663.453	Innovation and Design I	3
<i>Total Credits</i>		6

¹ Clark Scholars may satisfy three credits of the upper-level electives using the three one-credit course sequence: EN.660.122 Clark Scholars Engineering Design I, EN.660.230 Clark Scholars Engineering Design II, and EN.660.260 Clark Scholars Engineering Design III.

² Clark Scholars may satisfy three credits of the upper-level electives with EN.660.329 Social Entrepreneurship Theory and Practice. Community Based Learning.

CAPSTONE COURSE

Code	Title	Credits
Complete one course from the following:		
EN.520.499	Capstone Design Project II	3
EN.540.310	Product Design Part 2	3
EN.601.411	Computer Science Innovation & Entrepreneurship II	3
EN.660.410	Computer Science Innovation and Entrepreneurship	3
EN.660.419	Strategy Consulting	3
EN.660.455	Reimagining The City to Resist Climate Change	3
EN.660.460	Entrepreneurship	3
EN.660.461	Fundamentals of Product Management	3
<i>Total Credits</i>		3

¹ Clark Scholars may apply EN.660.415 Clark Scholars Capstone: Service and Leadership towards E&M Capstone requirement.

For current faculty and contact information go to <http://engineering.jhu.edu/cle/faculty> (<http://engineering.jhu.edu/cle/faculty/>)