

Tech Entrepreneurship, Minor (CMU-Q)

Minor in Tech Entrepreneurship

available to CMU Qatar students only

Overview

Carnegie Mellon University in Qatar students may pursue a Minor in Tech Entrepreneurship (advisor: Nui Vatanasakdakul (svatanas@andrew.cmu.edu)), an interdisciplinary program focused on building technology ventures powered by AI, robotics, and emerging technologies. Students develop entrepreneurial skills in opportunity identification, human-centered innovation, technology product development, business modeling, venture funding, and investor pitching while exploring how digital technologies are transforming industries. The minor culminates in a capstone startup project, where multidisciplinary teams launch and pitch their technology ventures to Qatar's startup ecosystem, including entrepreneurs, investors, and industry leaders.

Prerequisite Course

The prerequisite to declaring this minor is successful completion of 15-110 with a B grade or higher, or successful completion of 15-112. Business Administration majors pursuing an entrepreneurship concentration are precluded from declaring this minor.

Double-Counting

Each CMUQ student declaring the minor must take at least three (3) of the six (6) courses outside of their own major program of study. No more than two (2) courses may double count between the minor and requirements of other majors or minors.

Curriculum

Minor in Tech Entrepreneurship 54 units

Courses are categorized into four modules: fundamentals of entrepreneurship (9 units); digital design and technology (18 units); organizational intelligence (18 units); and a capstone/project course (9 units).

Fundamentals of Entrepreneurship 9 units

This module must be the first course completed in the SDM.

Choose one (1) of the following courses:		Units
15-390	Entrepreneurship for Computer Science	12
70-409	Innovation and Entrepreneurship in Emerging Markets	9
70-415	Introduction to Entrepreneurship	9
67-257	Glocalization of Tech Startups: AI and Emerging Technologies	9

Digital Design and Technology 18 units

Choose two (2) of the following courses:		Units
10-315	Introduction to Machine Learning (SCS Majors)	12
11-411	Natural Language Processing	12
11-485	Introduction to Deep Learning	12
15-182	Artificial Intelligence for Medicine	6
15-281	Artificial Intelligence: Representation and Problem Solving	12
15-282	Artificial Intelligence for Medicine	10
15-316	Software Foundations of Security and Privacy	9
15-330	Introduction to Computer Security	12
15-348	Embedded Systems	9
15-415	Database Applications	12
15-440	Distributed Systems	12
15-441	Networking and the Internet	12
15-488	Special Topic: Machine Learning in a Nutshell	9
16-311	Introduction to Robotics	12
17-313	Foundations of Software Engineering	12
67-240	Mobile Web Design & Development	9

67-265	Design Fundamentals: Shaping Interactions and Experiences	9
67-313	Digital Risk Management and Auditing	9
67-315	A Web For Everyone	9
67-316	Human Computer Interface Design and Testing	9
67-338	Information & Grid Design	9
67-352	Electronic Business and Design Thinking	9
67-354	Sustainability in the Digital Age	9
67-357	Healthcare Analytics and Big Data	9
67-364	Practical Data Science	9
67-379	Principles of Geographic Information Systems	9
67-432	Emerging Technology Studio	9
67-443	Mobile Application Design and Development	12
70-417	Topics in Entrepreneurship	9
70-455	Data Management Fundamentals	9

Organizational Intelligence 18 units

Choose two (2) of the following courses, including one (1) business course:		Units
67-318	Intelligent Business Process Management	9
67-382	Digital Transformation, Strategy and Management	9
70-122	Introduction to Accounting	9
70-311	Organizational Behavior	9
70-318	Managing Effective Work Teams	9
70-387	Strategy for High-Tech Products and Services	9
70-395	Funding Entrepreneurial Ventures	9
70-416	New Venture Creation	9
70-440	Corporate Strategy	9
70-441	Intelligent Automation for Business Architects	9
70-443	Digital Marketing and Social Media Strategy	9
70-455	Data Management Fundamentals	9

Capstone/Project Course 9 units

		Units
67-474	Tech Startup Launchpad	9