

## Technology Leadership

Technologies have become pervasive and fundamental to the operation of modern businesses. These technologies are at the core of today's knowledge-based economy, fueling the development of innovative products, services and business processes. Developing great high-technology products and services, however, requires more than just technical excellence. Technology leaders also need a deep understanding of business fundamentals and of how to integrate novel technologies, business processes and market forces together to create successful products and services.

The Technology Leadership MBA Track emphasizes strategic and management issues relevant to the development, application and management of cutting-edge technologies. Utilizing the strengths of Carnegie Mellon's #1 ranked School of Computer Science and other CMU schools, the track provides students a foundation in technology issues related broadly to hardware and software industries, as well as delivers knowledge in Financial Technology, High-Tech Healthcare, Mobile Apps, Internet of Things, and Robotics.

Graduates of this MBA Track are exceptionally prepared to address the complex issues that lie at the intersection of business and technology. They are trained to lead their future organizations in developing and executing technology strategies and managing technology projects.

### Who Should Apply

The Technology Leadership Track prepares students who aspire to senior positions in firms ranging from Product Manager and Technology Consultant to ultimately VP of Products, Chief Technology Officer, Chief Information Officer, and Chief Executive Officer.

Students enrolling in the track must have an undergraduate degree in Computer Science, Engineering, or have comparable work experience in the high-technology sector.

### Faculty Coordinator

Timothy Derdenger  
Associate Professor of Marketing and Strategy  
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### Required Track Courses

45-872	Technology Strategy	Year 1 Mini 4
45-833	New Product Management	Year 1 Mini 3; Year 2, Mini 1 & 3
45-888	Intro to Human Computer Interaction for Technology Executives	Year 2, Mini 2
45-994	Technology Leadership Capstone	Year 2, Spring

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Curriculum 2017-2018<sup>1</sup>

### Technology Electives Must Choose Two<sup>2</sup>

<b>Process/Project</b>	95-874	Agile Methods	Year 1, Mini 4; Year 2, Mini 2 & 4
	45-988	Management of Software Development for Technology Executives	Year 1 or 2, Mini 4
	53-604	Production Leadership	Year 2, Fall
<b>Technology</b>	05-834	Applied Machine Learning	Year 2, Fall
	15-619	Cloud Computing	Year 2, Fall
	45-851	Data Mining	Year 1 or 2, Mini 4
	49-713	Designing for the Internet of Things	Year 2, Mini 3
	05-898	HCI for PMs	Year 1 Mini 4
	45-887	Mobile and IoT	Year 1 or 2, Mini 3
<b>Other</b>	94-806	Privacy in the Digital Age	Year 2, Mini 1

### Technology Management Electives Must Choose Two

<b>Management</b>	45-951	Business Networks	Year 2, Mini 2
	95-744	Cybersecurity Policy and Governance	Year 2, Mini1
	05-898	Data Science for PMs: Making Products Count	Year 1 or 2, Mini 4
	95-722	Digital Transformation	Year 2, Mini 1
	45-934	Managing Intellectual Capital and Knowledge Intensive Industries	Year 2, Mini 1
	95-732	Marketing Digital Media	Year 1 or 2, Mini 4
	45-981	Strategic Technology to Revitalize Business	Year 1 or 2, Mini 3

See More Options Below....

<sup>1</sup> Note: the timing of the courses is not guaranteed as course offerings may vary from year to year.

<sup>2</sup> Note: other courses may be considered with consultation and permission from the faculty coordinator

**Technology Management Electives Cont'd**

<b>Entrepreneurship Electives Choose at <u>Most</u> One</b>			
	45-906	Business of Health Care Innovation	Year 2, Mini 1
	45-807	Commercialization and Innovation: Strategy	Year 2, Mini 1
	45-805	Lean Entrepreneurship	Year 1 Mini 3; Year 2 Mini 1 & 3
	94-850	Science of Growth	Year 2, Mini 2