

Graduate Degrees

This page contains a list of master's and doctoral degree programs offered by the College of Engineering (p. 1), College of Fine Arts (p. 2), Dietrich College of Humanities and Social Sciences (p. 2), Heinz College of Information Systems and Public Policy (p. 3), Mellon College of Science (p. 3), School of Computer Science (p. 3), and the David A. Tepper School of Business (p.), as well as University-Wide and Interdisciplinary Programs (p. 4) at Carnegie Mellon University. Please note that some master's degrees are available only to doctoral students and are awarded as milestones en route to the Ph.D. Please consult the program's website for details.

To learn more about the graduate programs offered at Carnegie Mellon University, see the Guide to Graduate Degrees and Programs (<https://www.cmu.edu/graduate/prospective/>), which provides a college-based list that will direct you to the college websites for detailed information.

College of Engineering

Biomedical Engineering

- M.S. in Artificial Intelligence Engineering - Biomedical Engineering
- M.S. in Artificial Intelligence Engineering - Biomedical Engineering - Research
- M.S. in Biomedical Engineering
- M.S. in Biomedical Engineering - Applied Study
- M.S. in Biomedical Engineering - Research
- M.S. in Computational Biomedical Engineering
- M.S. in Computational Biomedical Engineering - Applied Study
- M.S. in Computational Biomedical Engineering - Research
- Ph.D. in Biomedical Engineering

Chemical Engineering

- M.S. in Artificial Intelligence Engineering - Chemical Engineering
- M. of Chemical Engineering
- M.S. in Chemical Engineering
- M.S. in Chemical Engineering - Applied Study
- Ph.D. in Chemical Engineering

Civil and Environmental Engineering

- M.S. in Advanced Infrastructure Systems
- M.S. in Artificial Intelligence Engineering - Civil and Environmental Engineering
- M.S. in Civil Engineering
- M.S. in Civil and Computer Engineering
- M.S. in Civil and Environmental Engineering
- M.S. in Civil and Environmental Engineering - Applied Study
- M.S. in Civil and Environmental Engineering - Research
- M.S. in Civil and Environmental Engineering/M. of Business Administration (jointly with the Tepper School of Business)
- M.S. in Computational Mechanics
- M.S. in Environmental Engineering
- M.S. in Environmental Management and Science
- Ph.D. in Advanced Infrastructure Systems
- Ph.D. in Civil Engineering
- Ph.D. in Civil and Environmental Engineering
- Ph.D. in Computational Mechanics
- Ph.D. in Environmental Engineering
- Ph.D. in Environmental Management and Science

Electrical and Computer Engineering

- M.S. in Artificial Intelligence Engineering - Electrical and Computer Engineering
- M.S. in Electrical and Computer Engineering
- M.S. in Electrical and Computer Engineering - Advanced Study
- M.S. in Software Engineering (Silicon Valley Campus)
- M.S. in Software Engineering - Advanced Study (Silicon Valley Campus)
- Ph.D. in Electrical and Computer Engineering

Engineering and Public Policy

- M.S. in Engineering and Public Policy
- Ph.D. in Engineering and Public Policy
- Ph.D. in Engineering and Public Policy and an engineering discipline
- Ph.D. in Engineering & Public Policy and Language & Information Technologies (jointly with the School of Computer Science)
- Ph.D. in Engineering and Public Policy and Societal Computing (jointly with the School of Computer Science)
- Ph.D. in Engineering and Public Policy and Statistics (jointly with the Department of Statistics)

Information and Communication Technology

- M.S. in Information Technology (CMU Africa campus)
- M.S. in Engineering Artificial Intelligence (CMU Africa campus)

Information Networking Institute

- M.S. in Artificial Intelligence Engineering - Information Security
- M.S. in Artificial Intelligence Engineering - Information Security - Advanced Study
- M.S. in Information Networking
- M.S. in Information Networking - Advanced Study
- M.S. in Information Security
- M.S. in Information Security - Advanced Study
- M.S. in Information Technology - Information Security
- M.S. in Information Technology - Information Security - Advanced Study
- M.S. in Mobile and Internet of Things Engineering
- M.S. in Mobile and Internet of Things Engineering - Advanced Study

Materials Science and Engineering

- M.S. in Artificial Intelligence Engineering - Materials Science and Engineering
- M.S. in Additive Manufacturing
- M.S. in Computational Materials Science and Engineering
- M.S. in Materials Science
- M.S. in Materials Science and Engineering
- Ph.D. in Materials Science
- Ph.D. in Materials Science and Engineering

Mechanical Engineering

- M.S. in Artificial Intelligence Engineering - Mechanical Engineering
- M.S. in Mechanical Engineering
- M.S. in Mechanical Engineering - Advanced Study
- M.S. in Mechanical Engineering - Applied Advanced Study
- M.S. in Mechanical Engineering - Research
- Ph.D. in Mechanical Engineering

Interdepartmental

- M.S. in Artificial Intelligence Engineering - Energy Science, Technology & Policy
 - M.S. in Artificial Intelligence Engineering - Energy Science, Technology & Policy - Applied Study
 - M.S. in Energy Science, Technology and Policy
 - M.S. in Energy Science, Technology and Policy - Advanced Study
 - M.S. in Energy Science, Technology and Policy - Applied Study
 - M.S. in Energy Science, Technology and Policy - Applied Advanced Study
 - M.S. in Artificial Intelligence Engineering - Engineering & Technology Innovation Management
 - M.S. in Engineering and Technology Innovation Management
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College of Fine Arts

Architecture

- M. of Advanced Architectural Design
- M. of Architecture
- M.S. in Architecture
- M.S. in Architecture-Engineering-Construction Management (jointly with the Department of Civil and Environmental Engineering)
- M.S. in Building Performance and Diagnostics
- M.S. in Computational Design
- M.S. in Sustainable Design
- M.S. in Sustainable Design (Advanced Studies)
- M.S. in Sustainable Design (Applied Studies)
- M. of Urban Design
- D. of Professional Practice in Advanced Architectural Design
- D. of Professional Practice in Architecture
- Ph.D. in Architecture
- Ph.D. in Architecture-Engineering-Construction Management (jointly with the Department of Civil and Environmental Engineering)
- Ph.D. in Building Performance and Diagnostics
- Ph.D. in Computational Design

Art

- M.F.A. in Art

Design

- M.A. in Design
- M. of Design in Design for Interactions
- M. of Professional Studies in Design for Interactions
- D. of Design
- Ph.D. in Communication Design
- Ph.D. in Design

Drama

- M.F.A. in Costume Design
- M.F.A. in Costume Production
- M.F.A. in Directing
- M.F.A. in Dramatic Writing
- M.F.A. in Lighting Design
- M.F.A. in Scene Design
- M.F.A. in Sound Design
- M.F.A. in Stage and Production Management
- M.F.A. in Technical Direction
- M.F.A. in Video and Media Design

Music

- M. Music in Collaborative Piano
- M. Music in Composition
- M. Music in Music Education
- M. Music in Performance (various disciplines)
- M.S. in Music and Technology (jointly with the Department of Electrical and Computer Engineering and the School of Computer Science)

Dietrich College of Humanities and Social Sciences

CARNEGIE MELLON INSTITUTE FOR STRATEGY AND TECHNOLOGY

- M.S. in Security, Technology, and International Relations
- M. of Information Technology Strategy
- M. of Information Technology Strategy - Applied Strategy

Center for the Neural Basis of Cognition

- Ph.D. in Neural Computation
- Ph.D. in Neural Computation and Machine Learning
- Ph.D. in Neural Computation and Statistics
- Ph.D. in Systems Neuroscience

English

- M.A. in Literary and Cultural Studies
- M.A. in Professional Writing
- M.A. in Rhetoric
- Ph.D. in Literary and Cultural Studies
- Ph.D. in Rhetoric

History

- M.A. in History
- Ph.D. in History

Languages, Cultures, and Applied Linguistics

- M.A. in Applied Second Language Acquisition
- M.A. in Global Communication and Applied Translation (jointly with the Department of English)
- M.A. in Applied Linguistics and Second Language Acquisition
- M.A. in Applied Linguistics and Second Language Acquisition - Advanced Study
- Ph.D. in Second Language Acquisition

Philosophy

- M.A. in Philosophy
- M.S. in Logic, Computation and Methodology
- Ph.D. in Logic, Computation and Methodology
- Ph.D. in Philosophy
- Ph.D. in Pure and Applied Logic (jointly with the Computer Science Department and Department of Mathematical Sciences)

Psychology

- Ph.D. in Cognitive Neuroscience
- Ph.D. in Psychology
- Ph.D. in Psychology and Behavioral Decision Research (jointly with the Department of Social and Decision Sciences)

Social and Decision Sciences

- M.S. in Behavioral Decision Research
- M.S. in Social and Decision Sciences
- Ph.D. in Behavioral Decision Research
- Ph.D. in Behavioral Economics (jointly with Tepper School of Business)
- Ph.D. in Behavioral Marketing and Decision Research (jointly with Tepper School of Business)
- Ph.D. in Psychology and Behavioral Decision Research (jointly with the Department of Psychology)
- Ph.D. in Social and Decision Sciences

Statistics and Data Science

- M.S. in Applied Data Science
 - Ph.D. in Neural Computation and Statistics (jointly with the Center for the Neural Basis of Cognition)
 - Ph.D. in Statistics
 - Ph.D. in Statistics and Engineering and Public Policy (jointly with the Department of Engineering and Public Policy)
 - Ph.D. in Statistics and Machine Learning (jointly with the Department of Machine Learning)
 - Ph.D. in Statistics and Public Policy (jointly with the Heinz College)
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Heinz College of Information Systems and Public Policy

Arts Management

- M. of Arts Management (jointly with the College of Fine Arts)
- M. of Arts Management (jointly with the College of Fine Arts) and J.D. (jointly with the University of Pittsburgh School of Law)

Entertainment Industry Management

- M. of Entertainment Industry Management (jointly with the College of Fine Arts)

Health Care Policy and Management

- M.S. in Health Care Analytics and Information Technology

Information Security

- M.S. in Information Security Policy and Management

Information Systems

- M.S. in Artificial Intelligence Systems Management
- M. of Information Systems Management
- Ph.D. in Information and Systems Management

Information Technology

- M.S. in Information Technology (Business Intelligence and Data Analytics)
- M.S. in Information Technology (Information Systems Management)
- M.S. in Information Technology (Information Security and Assurance)
- M.S. in Information Technology (IT Management)

Medical Management

- M. of Medical Management

Public Management

- M. of Public Management

Public Policy and Management

- M.S. in Public Policy and Management
- M.S. in Public Policy and Management (Data Analytics)
- M.S. in Public Policy and Management and M.B.A. (jointly with Tepper School of Business)
- M.S. in Public Policy and Management and J.D. (jointly with the University of Pittsburgh School of Law)
- Ph.D. in Economics and Public Policy (jointly with the Tepper School of Business)
- Ph.D. in Machine Learning and Public Policy (jointly with the School of Computer Science)
- Ph.D. in Public Policy and Management
- Ph.D. in Statistics and Public Policy (jointly with Dietrich College of Humanities and Social Sciences)

Mellon College of Science

Biological Sciences

- M.S. in Biological Sciences
- M.S. in Biotechnology and Pharmaceutical Engineering (jointly with the Department of Chemical Engineering)
- M.S. in Computational Biology (jointly with the Computational Biology Department in the School of Computer Science)
- M.S. in Quantitative Biology and Bioinformatics
- M.S. in Quantitative Biology and Bioinformatics - Advanced Study
- Ph.D. in Biological Sciences

Chemistry

- M.S. in Chemistry
- Ph.D. in Chemistry

Mathematical Sciences

- M.S. in Algorithms, Combinatorics, and Optimization (jointly with School of Computer Science and Tepper School of Business)
- M.S. in Computational Finance (jointly with the Department of Statistics, the H. John Heinz III College, and the Tepper School of Business)
- M.S. in Mathematical Sciences
- Ph.D. in Algorithms, Combinatorics, and Optimization (jointly with School of Computer Science and Tepper School of Business)
- Ph.D. in Mathematical Sciences
- Ph.D. in Pure and Applied Logic (jointly with the Department of Philosophy and the School of Computer Science)

Physics

- M.S. in Physics
- M.S. in Modern Physics
- Ph.D. in Applied Physics
- Ph.D. in Physics

Interdepartmental

- M.S. in Data Analytics for Science
- Ph.D. in Molecular Biophysics and Structural Biology (jointly with the University of Pittsburgh)

School of Computer Science

Computer Science

- M.S. in Computer Science
- M.S. in Computer Science - Foundational Studies
- M.S. in Computer Science - Research
- M.S. in Computer Science - Research Thesis (5th Year Scholars Program only)
- Ph.D. in Algorithms, Combinatorics and Optimization (jointly with the Department of Mathematical Sciences and Tepper School of Business)
- Ph.D. in Computer Science
- Ph.D. in Pure and Applied Logic (jointly with the Department of Mathematical Sciences and the Department of Philosophy)

Computational Biology Department

- M.S. in Automated Science - Biological Experimentation
- M.S. in Automated Science - Biological Experimentation - Applied Study
- M.S. in Computational Biology (jointly with the Department of Biological Sciences)
- Ph.D. in Computational Biology

Human-Computer Interaction

- M. of Human-Computer Interaction
- M. of Educational Technology & Applied Learning Sciences (jointly with the Dietrich College of Humanities and Social Sciences)
- M.S. in Product Management (jointly with Tepper School of Business)
- Ph.D. in Human-Computer Interaction

Language Technologies Institute

- M.S. in Artificial Intelligence and Innovation
- M. of Computational Data Science
- M.S. in Intelligent Information Systems
- M.S. in Intelligent Information Systems - Advanced Study
- M.S. in Language Technologies
- Ph.D. in Language and Information Technologies

Machine Learning

- M.S. in Machine Learning
- M.S. in Machine Learning - Applied Study

- Ph.D. in Machine Learning
- Ph.D. in Autonomous and Human Decision Making (jointly with the Social and Decision Sciences Department)
- Ph.D. in Machine Learning and Public Policy (jointly with the Heinz College)
- Ph.D. in Neural Computation and Machine Learning (jointly with Center for Neural Basis of Cognition)
- Ph.D. in Statistics and Machine Learning (jointly with the Dietrich College of Humanities and Social Sciences)

Robotics Institute

- M.S. in Computer Vision
- M.S. in Robotics
- M.S. in Robotic Systems Development
- Ph.D. in Robotics

Software & Societal Systems

- M. of Software Engineering in Embedded Systems
- M. of Software Engineering in Scalable Systems
- M. of Software Engineering
- M.S. in Software Engineering
- M.S. in Privacy Engineering
- M.S. in Privacy Engineering - Applied Study
- M.S. in Privacy Technology and Policy
- M.S. in Societal Computing
- Ph.D. in Societal Computing
- Ph.D. in Software Engineering

University-Wide, Interdisciplinary, and Joint Degree Programs

Communication Planning and Information Design Program

- M. Design in Communication Planning and Information Design (jointly with the School of Design and the Department of English)

Computational Finance Program

- M.S. in Computational Finance (jointly with the Dietrich College of Humanities and Social Sciences, Heinz College, Mellon College of Science and Tepper School of Business)

Entertainment Technology Center

- M. of Entertainment Technology

information technology strategy

- Master of Information Technology Strategy (MITS) (jointly with the College of Engineering, School of Computer Science and the Carnegie Mellon Institute for Strategy and Technology)

Integrated Innovation Institute

- M. of Integrated Innovation for Products and Services
- M. of Integrated Innovation for Products and Services - Advanced Study
- M.S. in Software Management (Silicon Valley campus)

David A. Tepper School of Business

Business Administration

- M. of Business Administration (M.B.A.)
 - M.B.A./M.S. in Public Policy Management (jointly with Heinz College)
 - M.B.A./M.S. in Civil and Environmental Engineering (in association with Carnegie Institute of Technology)
 - M.B.A. and J.D. in Law (jointly with the University of Pittsburgh Law School)
 - M.B.A./M.S. in Health Care Policy Management (jointly with Heinz College)
 - M.B.A./M.S. in Software Engineering (jointly with the School of Computer Science)
 - M.S. in Business Analytics
 - M.S. in Computational Finance (jointly with Dietrich College, the Mellon College of Science, and Heinz College)
 - M.S. in Product Management
 - Ph.D. in Accounting
 - Ph.D. in Algorithms, Combinatorics, and Optimization (jointly with the School of Computer Science and Department of Mathematical Sciences)
 - Ph.D. in Economics
 - Ph.D. in Finance
 - Ph.D. in Information Systems
 - Ph.D. in Management of Manufacturing and Automation (with Robotics Institute)
 - Ph.D. in Marketing
 - Ph.D. in Operations Management and Manufacturing
 - Ph.D. in Operations Research
 - Ph.D. in Organizational Behavior and Theory
 - Ph.D. in Economics and Public Policy (jointly with Heinz College)
 - Ph.D. in Strategy, Entrepreneurship, and Technological Change (jointly with the Department of Social and Decision Sciences, Heinz College, and the Department of Engineering and Public Policy)
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