

# Degrees Offered

The following list shows all primary degrees offered for both undergraduate and graduate students at Carnegie Mellon University, under the colleges and departments which offer them.

For a list of minors, please see Undergraduate Options (<http://coursecatalog.web.cmu.edu/servicesandoptions/undergraduateoptions/#minorstext>).

## College of Engineering

### Interdepartmental

- M.S. in Energy Science, Technology and Policy
- M.S. in Energy Science, Technology and Policy (Applied Studies)
- M.S. in Engineering and Technology Innovation Management

### Biomedical Engineering

- B.S. in an engineering discipline and Biomedical Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofbiomedicalengineering/#courserequirementsfortheaditionalmajordegreertext>)
- M.S. in Biomedical Engineering
- Ph.D. in Biomedical Engineering
- Ph.D. in Biomedical Engineering and Engineering and Public Policy

### Chemical Engineering

- B.S. in Chemical Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofchemicalengineering/#curriculumtext>)
- M. Chemical Engineering
- M.S. in Chemical Engineering
- M.S. in Chemical Engineering and Colloids, Polymers and Surfaces
- M.S. in Colloids, Polymers and Surfaces
- Ph.D. in Chemical Engineering

### Civil and Environmental Engineering

- B.S. in Civil Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofcivilandenvironmentalengineering/#curriculumtext>)
- M.S. in Advanced Infrastructure Systems
- M.S. in Civil Engineering
- M.S. in Civil and Environmental Engineering
- 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 Civil and Environmental Engineering and Engineering and Public Policy (dual degree offered with Engineering and Public Policy)
- Ph.D. in Computational Mechanics
- Ph.D. in Environmental Engineering
- Ph.D. in Environmental Management and Science

### Electrical and Computer Engineering

- B.S. in Electrical and Computer Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofelectricalandcomputerengineering/#curriculumoverviewtext>)
- B.S. in Music and Technology (jointly with the Department of Music and the School of Computer Science)
- M.S. in Electrical and Computer Engineering
- M.S. in Music and Technology (jointly with the Department of Music and the School of Computer Science)
- M.S. in Software Engineering (Silicon Valley Campus)
- Master of Science in Software Engineering - Development Management (Silicon Valley Campus)
- Ph.D. in Electrical and Computer Engineering

### Engineering and Public Policy

- B.S. in an engineering discipline with an additional major in Engineering and Public Policy (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofengineeringandpublicpolicy/#doublemajorcurriculumtext>)
- B.A., B.S. in DC, MCS, or SCS and an additional major in Science, Technology and Public Policy (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofengineeringandpublicpolicy/#additionalmajorinstppcurriculumtext>)
- 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 and Public Policy and Statistics (jointly with the Department of Statistics)

### Information and Communication Technology

- M.S. in Information Technology

### Information Networking Institute

- M.S. in Emerging Media - Mobility
- M.S. in Information Networking
- M.S. in Information Security
- M.S. in Information Technology - Information Security
- M.S. in Information Technology - Mobility
- M.S. in Information Technology - Software Management

### Materials Science and Engineering

- B.S. in Materials Science and Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/materialsscienceandengineering/#curriculumtext>)
- M.S. in Materials Science
- M.S. in Materials Science and Engineering
- Ph.D. in Materials Science

### Mechanical Engineering

- B.S. in Mechanical Engineering (link) (<http://coursecatalog.web.cmu.edu/carnegieinstituteoftechnology/departamentofmechanicalengineering/#curriculumtext>)
- M.S. in Computational Design and Manufacturing
- M.S. in Mechanical Engineering
- Ph.D. in Mechanical Engineering

## College of Fine Arts

### Architecture

- B. of Architecture (5-year program) (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofarchitecture/#curriculumtext>)
- M. of Advanced Architectural Design
- M. of Architecture
- M.A. in Emerging Media - Enactive Technologies and Interfaces
- M.A. in Emerging Media - Narrative, Composition, Experiential Media
- M.A. in Emerging Media - Participatory Culture and Digital Humanities
- M.S. in Architecture
- M.S. in Building Performance and Diagnostics
- M.S. in Computational Design
- M.S. in Sustainable Design
- M. of Tangible Interaction Design
- M. of Urban Design
- D. of Professional Practice in Architecture
- Ph.D. in Architecture
- Ph.D. in Building Performance and Diagnostics
- Ph.D. in Computational Design

**Art**

- B.F.A. in Art (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofart/#bfacurriculumtext>)
- M.F.A. in Art

**Design**

- B. of Design (link) ([http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofdesign/#first\\_year\\_text](http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofdesign/#first_year_text))
- 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 Design

**Drama**

- B.F.A. in Drama (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofdrama/#curriculumtext>)
- 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**

- B.F.A. in Music (Composition) (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#musiccurriculumtext>)
- B.F.A. in Music Performance (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#musiccurriculumtext>)
- B.S. in Music and Technology (jointly with the Department of Electrical and Computer Engineering and the School of Computer Science) (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#bsinmusicandtechnologytext>)
- M. Music in Composition
- M. Music in Conducting
- M. Music in Music Education
- M. Music in Performance
- 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

**Interdepartmental**

- B.S. in Economics and Mathematical Sciences (jointly offered by the Undergraduate Economics Program and the Department of Mathematical Sciences) (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorineconomicsandmathematicalsciences\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorineconomicsandmathematicalsciences_text))
- B.S. in Economics and Statistics (jointly offered by the Department of Statistics and Data Science and the Undergraduate Economics Program) (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorineconomicsandstatistics\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorineconomicsandstatistics_text))
- B.A./B.S. in Ethics, History, and Public Policy (jointly offered by the Departments of History and Philosophy) (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorinethicshistoryandpublicpolicy\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorinethicshistoryandpublicpolicy_text))
- B.S. in Information Systems (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/informationssystem/#curriculumtext>)
- B.A. in Linguistics (jointly offered by the Departments of English, Modern Languages, Philosophy, and Psychology) (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorinlinguisticstext>)

- B.S. in Neuroscience (jointly offered by the Department of Biological Sciences and the Center for the Neural Basis of Cognition) (link) (<http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/#bachelorofscienceinneurosciencetext>)
- B.S. in Psychology and Biological Sciences (jointly offered by the Departments of Psychology and Biological Sciences) (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/interdepartmentalmajors/#majorinpsychologyandbiologicalsciencetext>)
- B.S. in Statistics and Machine Learning (jointly offered by the Department of Statistics and Data Science and the School of Computer Science) (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofstatistics/#statsmltext>)

**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

**Economics****(jointly offered by Dietrich College and Tepper School of Business unless otherwise noted)**

- B.A. in Economics (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/undergraduateeconomicsprogram/#baieconomicscurriculumtext>)
- B.S. in Economics (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/undergraduateeconomicsprogram/#bsineconomicscurriculumtext>)
- Ph.D. in Economics (Tepper only)
- Ph.D. in Economics and Public Policy (Tepper only, jointly with Heinz College)

**English**

- B.A. in Creative Writing (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofenglish/#baincreativewritingtext>)
- B.A. in English (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofenglish/#bainenglishtext>)
- B.A. in Professional Writing (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofenglish/#bainprofessionalwritingtext>)
- B.S. in Technical Writing and Communication (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofenglish/#bsintechnicalwritingcommunicationtext>)
- M.A. in Literary and Cultural Studies
- M.A. in Professional Writing
- M.A. in Rhetoric
- M. Litt in Investigative Journalism (jointly with the University of Strathclyde [Glasgow, Scotland])
- Ph.D. in Literary and Cultural Studies
- Ph.D. in Rhetoric

**History**

- B.A. in Social and Political History (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofhistory/#bainhistorytext>)
- B.S. in Social and Political History (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofhistory/#bainhistorytext>)
- B.A. in Global Studies (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofhistory/#baglobalstudies\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofhistory/#baglobalstudies_text))
- M.A. in History
- Ph.D. in History

**Modern Languages**

- B.A. in Chinese Studies (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#chinesestudies\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#chinesestudies_text))
- B.A. in French and Francophone Studies (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#frenchandfrancophonestudies\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#frenchandfrancophonestudies_text))
- B.A. in German Studies (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#germanstudies\\_text](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#germanstudies_text))

- B.A. in Hispanic Studies (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#hispanicstudiesext>)
- B.A. in Japanese Studies (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#japanesestudiesext>)
- B.A. in Russian Studies (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofmodernlanguages/#russianstudiesext>)
- M.A. in Applied Second Language Acquisition
- M.A. in Second Language Acquisition
- Ph.D. in Second Language Acquisition

### Philosophy

- B.A. in Philosophy (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofphilosophy/#majorinphilosophytext>)
- B.S. in Logic and Computation (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofphilosophy/#majorinlogicandcomputationext>)
- 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

### Politics and Strategy

- B.S. in International Relations and Politics (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/instituteforpoliticsandstrategy/#majorininternationalrelationsandpoliticstext>)
- M.S. in International Relations and Politics

### Psychology

- B.A. in Psychology (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#psych\\_majorext](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#psych_majorext))
- B.S. in Psychology (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#psych\\_majorext](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#psych_majorext))
- B.S. in Cognitive Science (link) ([http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#cognitive\\_sciencetext](http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofpsychology/#cognitive_sciencetext))
- 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

- B.A. in Behavioral Economics, Policy, and Organizations (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofsocialanddecisionsciences/#majorinbehavioraleconomicspolicyandorganizationstext>)
- B.S. in Decision Science (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofsocialanddecisionsciences/#majorstext>)
- B.S. in Policy and Management (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofsocialanddecisionsciences/#majorinpolicyandmanagementext>)
- M.S. in Behavioral Decision Research
- M.S. in Social and Decision Sciences
- M.S. in Strategy, Entrepreneurship, and Technological Change (jointly with the Tepper School of Business, Heinz College, and the Department of Engineering and Public Policy)
- Ph.D. in Behavioral Decision Research
- Ph.D. in Psychology and Behavioral Decision Research (jointly with the Department of Psychology)
- Ph.D. in Social and Decision Sciences
- Ph.D. in Strategy, Entrepreneurship, and Technological Change (jointly with the Tepper School of Business, Heinz College, and the Department of Engineering and Public Policy)

### Statistics and Data Science

- B.S. in Statistics (link) (<http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/departmentofstatistics/#bsinstatisticstext>)

- M. of Statistical Practices
- Ph.D. in Neural Cognition 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)

## H. John Heinz III College

### School of Information Systems & Management

#### Information Security Policy and Management

- M.S. in Information Security Policy and Management

#### Information Systems Management

- M. of Information Systems Management
- Ph.D. in Information Systems and Management

#### Information Technology

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

### School of Public Policy & Management

#### 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 Graduate Degree in Innovation and Organization of Culture and the Arts (jointly with the University of Bologna's School of Economics)
- 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 Policy and Management
- M.S. in Health Care Policy and Management and M.B.A. (jointly with Tepper School of Business)

#### 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)
- M.S. in Public Policy and Management and M. of Divinity (jointly with the Pittsburgh Theological Seminary)
- Ph.D. in Public Policy and Management
- 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 Statistics and Public Policy (jointly with Dietrich College of Humanities and Social Sciences)

- Ph.D. in Strategy, Entrepreneurship and Technological Change (jointly with Dietrich College of Humanities and Social Sciences, the Carnegie Institute of Technology and the Tepper School of Business)

### Adelaide, South Australia Campus

- M.S. in Information Technology
- M.S. in Public Policy and Management

## Mellon College of Science

### Biological Sciences

- B.A. in Biological Sciences (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofbiologicalsciences/#bainbiologicalsciencetext>)
- B.S. in Biological Sciences (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofbiologicalsciences/#bsinbiologicalsciencetext>)
- B.S. in Biological Sciences/Neuroscience Track (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofbiologicalsciences/#bsinbiologicalsciencesneurosciencetracktext>)
- B.S. in Biological Sciences and Psychology (jointly with the Department of Psychology) (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofbiologicalsciences/#bsinbiologicalsciencesandpsychologytext>)
- B.S. in Neuroscience (jointly with the Department of Psychology) (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofbiologicalsciences/#bsinneurosciencetext>)
- M.S. in Biological Sciences
- Ph.D. in Biological Sciences

### Chemistry

- B.A. in Chemistry (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofchemistry/#batext>)
- B.S. in Chemistry (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofchemistry/#bstext>)
- B.S. in Chemistry/Biological Chemistry Track (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofchemistry/#bsinchemistrybiologicalchemistrytracktext>)
- M.S. in Chemistry
- M.S. in Colloids, Polymers, and Surfaces (jointly with the Department of Chemical Engineering)
- Ph.D. in Chemistry

### Mathematical Sciences

- B.S. in Mathematical Sciences (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofmathematicalsciences/#curriculertext>)
- M.S. in Algorithms, Combinatorics, and Optimization
- M.S. in Mathematical Sciences
- M.S. in Computational Finance (jointly with the Department of Statistics, the H. John Heinz III College, and the Tepper School of Business)
- D.A. in Mathematical Sciences
- Ph.D. in Algorithms, Combinatorics, and Optimization
- Ph.D. in Mathematical Finance
- 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

- B.A. in Physics (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofphysics/#physicsbatext>)
- B.S. in Physics (link) (<http://coursecatalog.web.cmu.edu/melloncollegeofscience/departmentofphysics/#bsinphysicstext>)
- M.S. in Physics
- Ph.D. in Applied Physics
- Ph.D. in Physics

## School of Computer Science

### SCS College-Wide

- B.S. in Computer Science (link) (<http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputerscience/#bscurriculumtext>)

### Computer Science

- B.S. in Music and Technology (jointly with the Departments of Electrical and Computer Engineering and Music) (link) (<http://coursecatalog.web.cmu.edu/collegeoffinearts/schoolofmusic/#bsinmusicandtechnologytext>)
- M.S. in Algorithms, Combinatorics and Optimization
- M.S. in Computer Science
- M.S. in Computer Science (5th Year Scholars Program only)
- M.S. in Emerging Media - Sound and Music Computing
- M.S. in Music and Technology (jointly with the Departments of Electrical and Computer Engineering and Music)
- M.S. in Pure and Applied Logic (jointly with the Department of Mathematical Sciences and the Department of Philosophy)
- Ph.D. in Algorithms, Combinatorics and Optimization
- 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

- B.S. in Computational Biology (link) (<http://coursecatalog.web.cmu.edu/schoolofcomputerscience/undergraduatecomputationalbiology/#bscurriculumtext>)
- M.S. in Computational Biology
- M.S. in Biotechnology Innovation and Computation (jointly with the Language Technologies Institute)
- Ph.D. in Computational Biology

### Human-Computer Interaction

- M.S. in Human-Computer Interaction
- M.S. in Emerging Media - Interactions in Media
- M. of Human-Computer Interaction
- M. of Educational Technology & Applied Learning Sciences (jointly with the Dietrich College of Humanities and Social Sciences)
- Ph.D. in Human-Computer Interaction

### Institute for Software Research

- M. of Software Engineering
- M.S. in Information Technology -- eBusiness Technology
- M.S. in Information Technology - Privacy Engineering
- M.S. in Information Technology - Embedded Software Engineering
- M.S. in Information Technology (Software Engineering)
- M.S. in Information Technology - Software Engineering Management
- Ph.D. in Societal Computing
- Ph.D. in Software Engineering

### Language Technologies Institute

- M.S. in Language Technologies
- M.S. in Biotechnology Innovation and Computation (jointly with the Computational Biology Department)
- M.S. in Emerging Media - Multimedia Data Science
- M. of Computational Data Science
- Ph.D. in Language Technologies

### Machine Learning

- M.S. in Machine Learning
- Ph.D. in Machine Learning
- Ph.D. in Machine Learning & 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 Robotics
- M.S. in Robotics Technology
- M.S. in Robotic Systems Development
- M.S. in Computer Vision
- M.S. in Emerging Media - Visual Computing
- Ph.D. in Robotics

## David A. Tepper School of Business

### Business Administration

- B.S. in Business Administration (link) (<http://coursecatalog.web.cmu.edu/tepper/undergraduatebusinessadministrationprogram/#bsinbusinessadministrationtext>)

### Economics (jointly with Dietrich College of Humanities and Social Sciences)

- B.A. in Economics (link) (<http://coursecatalog.web.cmu.edu/tepper/undergraduateeconomicsprogram/#baineconomicstext>)
- B.S. in Economics (link) (<http://coursecatalog.web.cmu.edu/tepper/undergraduateeconomicsprogram/#bsineconomicstext>)
- B.S. in Economics and Mathematical Sciences (jointly offered by Dietrich College, the Department of Mathematical Sciences, and Tepper School of Business) (link) (<http://coursecatalog.web.cmu.edu/tepper/undergraduateeconomicsprogram/#bsineconomicsandmathematicalsciencesstext>)
- B.S. in Economics and Statistics (jointly offered by the Tepper School of Business and the Department of Statistics and Data Science) (link) (<http://coursecatalog.web.cmu.edu/tepper/undergraduateeconomicsprogram/#bsineconomicsandstatisticstext>)

### Industrial 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 Computational Finance (jointly with Dietrich College, the Mellon College of Science, and Heinz College)
- 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)

## University-Wide, Intercollege, and Joint Degree Programs

### Architecture-Engineering-Construction Management Program

- M.S. in Architecture-Engineering-Construction Management (jointly with the Department of Civil and Environmental Engineering and the School of Architecture)
- Ph.D. in Architecture-Engineering-Construction Management (jointly with the Department of Civil and Environmental Engineering and the School of Architecture)

### BXA Intercollege Degree Programs

- B. of Computer Science and Arts (jointly with the School of Computer Science and the College of Fine Arts) (link) ([http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bcsa\\_programtext](http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bcsa_programtext))
- B. of Humanities and Arts (jointly with the Dietrich College of Humanities and Social Sciences and the College of Fine Arts) (link) ([http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bha\\_programtext](http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bha_programtext))

- B. of Science and Arts (jointly with the Mellon College of Science and the College of Fine Arts) (link) ([http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bsa\\_programtext](http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/bxaintercollege/#bsa_programtext))

### 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

- B.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) (link) (<http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/#majorminorincomputationalfinancetext>)
- 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

### 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)
- M.S. in Technology Ventures

### Science and Humanities Scholars Program

- B.A./B.S. in various disciplines (jointly with the Dietrich College of Humanities and Social Sciences and the Mellon College of Science) (link) (<http://coursecatalog.web.cmu.edu/servicesandoptions/intercollegeprograms/#scienceandhumanitiesscholarsprogramtext>)

## Carnegie Mellon University in Qatar

### Qatar Biological Sciences

- B.S. in Biological Sciences
- B.S. in Computational Biology

### Qatar Business Administration

- B.S. in Business Administration

### Qatar Computer Science

- B.S. in Computer Science

### Qatar Information Systems

- B.S. in Information Systems