# Computer Science Master's Degree Program

#### 10 Online Courses:

- 2 Admission Courses
- 8 Core Courses
- 1 On-Campus Precapstone Course
- 1 Online Capstone Course

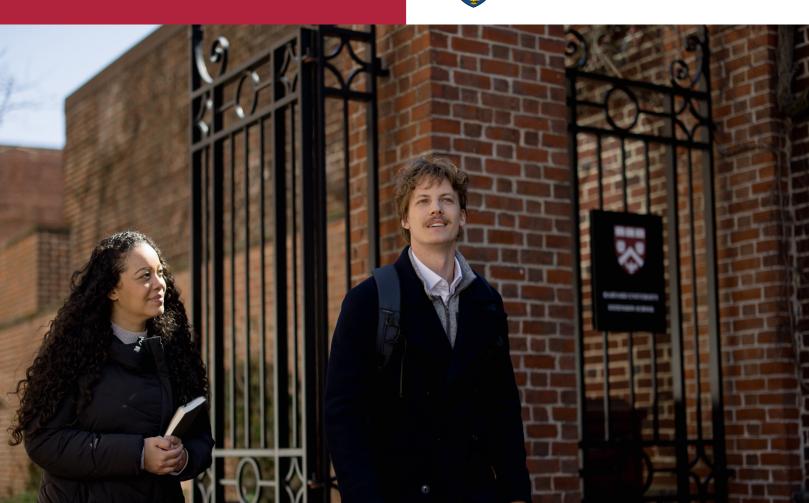
Explore several examples of how you might progress through the program at a pace that works for you.

- 2-year accelerated pathway: Illustrates how a student might complete the program on an intensive timeline, taking a full course load each term.
- 3-year steady pace pathway: Demonstrates a steady, year-round pace that supports consistent progress while balancing work and study.
- 4-year extended pathway: Reflects a more flexible approach, allowing lighter course loads or breaks between semesters.

Each pathway represents one possible way to structure your studies. Your path will depend on your goals and schedule. Courses listed here are examples; availability may vary by year.

Learn more about the <u>computer science program</u> <u>courses and degree requirements</u>.





This accelerated pathway illustrates how a student can fast-track their studies, balancing multiple courses in back-to-back terms.

Completing the **admission courses** in the same term is intensive; consider the course load and your schedule before deciding how quickly to begin.

The summer precapstone and fall capstone sequence suits both U.S. and international students.

# Year 1

# Spring

#### 2 Courses

- Admission Course Introduction to Computer Science Using Java II
- Admission Course
   Data Structures

#### **MILESTONES:**

- Connect with a predegree and admissions advisor for support during the admission process.
- Submit your application while completing the courses for admission (application period open March 15–April 15).

### Summer

#### 2 Courses

- Discrete Math Course
   Discrete Mathematics for
   Computer Science
- Course in Data Science, Artificial Intelligence, or Machine Learning

Example: Deep Learning

#### **MILESTONES:**

- Celebrate admission.
   Decisions released in June.
- Connect with an academic advisor to plan your degree path.

### Fall

#### 3 Courses

- Algorithms Course Example: Introduction to Algorithms, Computability, and Complexity
- Theoretical Computer
   Science Course
   Example: Systems Programming
   and Machine Learning
- Software Engineering Course

Example: Software Design: Principles, Models, and Patterns

#### MILESTONE:

 Convocation. Join us on campus for a celebration with fellow degree candidates.



# Year 2

# Spring

### 3 Courses

 Theoretical Computer Science Course

Example: Unix/Linux Systems Programming

 Software Engineering Course

Example: User Experience Engineering

 Cloud Computing Course

Example: Fundamentals of Cloud Computing and OpenAl with Microsoft Azure

### Summer

**Precapstone Course** 

#### **MILESTONE:**

 On-campus experience. In a 3-week course, collaborate with your project team, industry partner, and faculty on a capstone plan.

International students: Plan ahead during the prior term for necessary visa and travel logistics.

### Fall (Final Term)

**Capstone Course** 

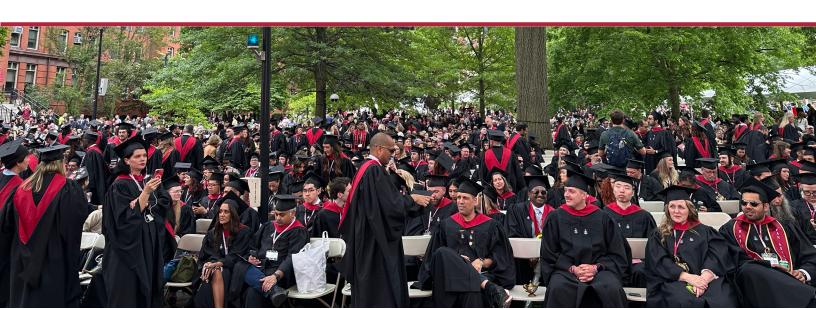
#### **MILESTONE:**

 Complete your capstone project & fulfill your degree requirements for graduation.

# **Graduation (May)**

Join your peers on campus to celebrate at Harvard University Commencement.

Stay engaged through the Harvard Alumni Association and Harvard Extension School Alumni Association.



This sample plan illustrates a steady pace, with the admission courses taken separately in back-to-back terms. The path includes a January precapstone and spring capstone sequence (the January precapstone course is only available to U.S. students).

# Year 1

## **Fall**

#### 1 Course

 Admission Course Introduction to Computer Science Using Java II

#### **MILESTONES:**

- Earning your way in. Complete your first course for admission.
- Connect with a predegree and admissions advisor for support during the admission process.

## Spring

#### 1 Course

Admission Course
 Data Structures

#### MILESTONE:

 Submit your application while taking your second admission course (application period open March 15–April 15).

### Summer

#### 1 Course

 Software Engineering Course

Example: User Experience Engineering

#### MILESTONE:

- Celebrate admission.
   Decisions released in June.
- Connect with an academic advisor to plan your degree path.



# Year 2

## Fall

#### 2 Courses

- Discrete Math Course
   Discrete Mathematics for
   Computer Science
- Algorithms Course
   Example: Introduction to
   Algorithms, Computability,
   and Complexity

#### **MILESTONES:**

 Convocation. Join us on campus for a celebration with fellow degree candidates.

## Spring

#### 2 Courses

 Theoretical Computer Science Course 1

Example: Unix/Linux Systems Programming

Theoretical Computer
 Science Course 2
 Example: Computer Architecture

### Summer

#### 1 Course

 Course in Data Science, Artificial Intelligence, or Machine Learning
 Example: Deep Learning



# Year 3

## **Fall**

#### 2 Courses

 Software Engineering Course

Example: Software Design: Principles, Models, and Patterns

Cloud Computing Course

Example: Programming in Scala for Big Data Systems

## January

### **Precapstone Course**

#### **MILESTONE:**

 On-campus experience.
 In a 3-week course, collaborate with your project team, industry partner, and faculty on a capstone plan.

## Spring (Final Term)

### **Capstone Course**

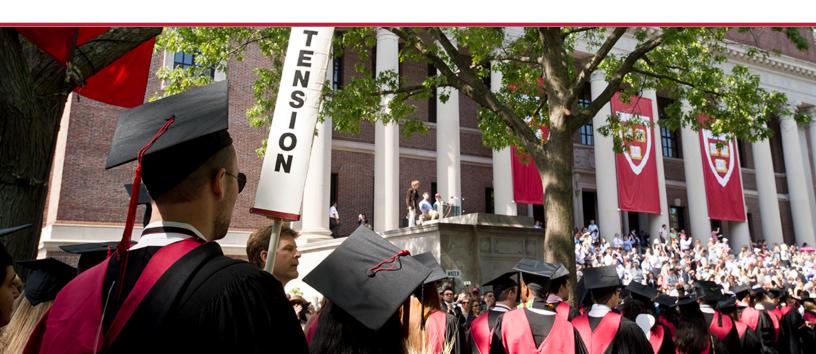
#### **MILESTONE:**

 Complete your capstone project & fulfill your degree requirements for graduation.

# Graduation (May)

Join your peers on campus to celebrate at Harvard University Commencement.

Stay engaged through the Harvard Alumni Association and Harvard Extension School Alumni Association.



This extended pathway represents a flexible, part-time pace, with online courses taken only in the fall and spring semesters. It culminates in a summer precapstone and fall capstone sequence — ideal for both U.S. and international students.

# Year 1

### Fall

#### 1 Course

Admission Course
 Introduction to Computer Science Using Java II

#### **MILESTONES:**

- Earning your way in. Complete your first course for admission.
- Connect with a predegree and admissions advisor for support during the admission process.

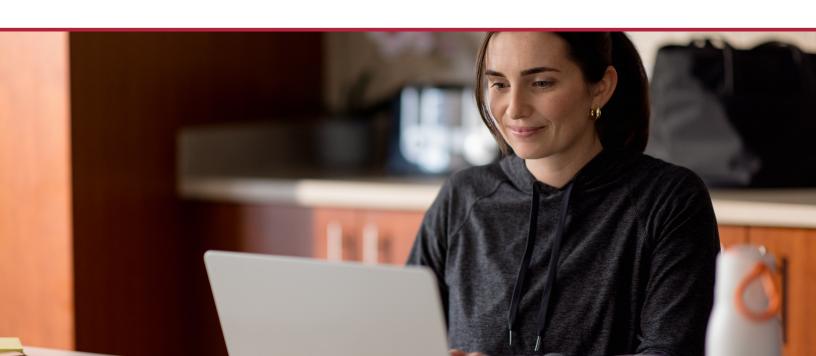
## Spring

#### 1 Course

Admission Course
 Data Structures

#### **MILESTONE:**

 Submit your application while taking your second admission course (application period open March 15– April 15). Admission decisions released in June.



# Year 2

## Fall

#### 2 Courses

- Discrete Math Course
   Discrete Mathematics for Computer Science
- Algorithms Course
   Example: Introduction to Algorithms, Computability, and Complexity

#### **MILESTONES:**

- Convocation. Join us on campus for a celebration with fellow degree candidates.
- Connect with an academic advisor to plan your degree path.

## Spring

#### 2 Courses

- Theoretical Computer Science Course 1
   Example: Unix/Linux Systems Programming
- Theoretical Computer Science Course 2 Example: Computer Architecture



# Year 3

## Fall

#### 2 Courses

 Course in Data Science, Artificial Intelligence, or Machine Learning

Example: Deep Learning

 Software Engineering Course

Example: Software Design: Principles, Models, and Patterns

## Spring

#### 2 Courses

 Cloud Computing Course

Example: Fundamentals of Cloud Computing and OpenAl with Microsoft Azure

 Software Engineering Course

Example: Digital Media
Design: From Prototypes to
Products and Services

### Summer

#### **Precapstone Course**

#### **MILESTONE:**

 On-campus experience. In a 3-week course, collaborate with your project team, industry partner, and faculty on a capstone plan.

International students: Plan ahead in the prior term for necessary visa and travel logistics.

# Year 4

### Fall (Final Term)

#### Capstone Course

#### MILESTONE:

• Complete your capstone project & fulfill your degree requirements for graduation.

## Graduation (May)

- Join your peers on campus to celebrate at Harvard University Commencement.
- Stay engaged through the Harvard Alumni Association and Harvard Extension School Alumni Association.

