EXAMPLE PATHWAYS

Data Science Master's Degree Program

10 Online Courses:

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

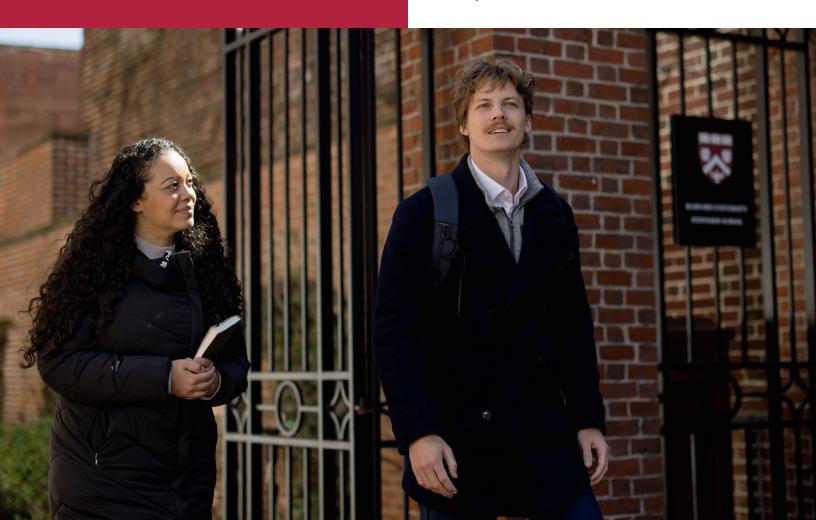
Explore several examples of how you might progress through the program at a pace that works for you.

- 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>data 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
 Statistical Data Modeling
- Admission Course
 Foundations of Data Science
 and Engineering

MILESTONE:

 Submit your application while completing the courses for admission (application period open March 15–April 15).

Summer

2 Courses

- Core Course
 Example: Elements of Data

 Science and Statistical Learning with R
- Elective Course

 Example: Deep Learning

MILESTONES:

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

Fall

3 Courses

- Core Course
 Example: Introduction to
 Data Science
- Core Course
 Example: Data Engineering
 for Analytics to Solve
 Business Challenges
- Elective Course

 Example: Data Mining,

 Discovery, and Exploration

MILESTONE:

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



Year 2

Spring

3 Courses

- Core Course
 Example: Advanced Topics in
 Data Science
- Elective Course
 Example: Data Science and Artificial Intelligence Ethics,
 Governance, and Laws
- Elective Course

 Example: Artificial Intelligence,
 the Internet-of-Things, and
 Cybersecurity

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 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
 Foundations of Data Science
 and Engineering

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
 Statistical Data Modeling

MILESTONE:

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

Summer

1 Course

Core Course
 Example: Data Science and Artificial Intelligence Ethics,
 Governance, and Laws

MILESTONES:

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



Year 2

Fall

2 Courses

Core Course
 Example: Dynamic Modeling and Forecasting in Big Data

Core Course
 Example: Elements of Data

 Science and Statistical Learning with R

MILESTONE:

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

Spring

2 Courses

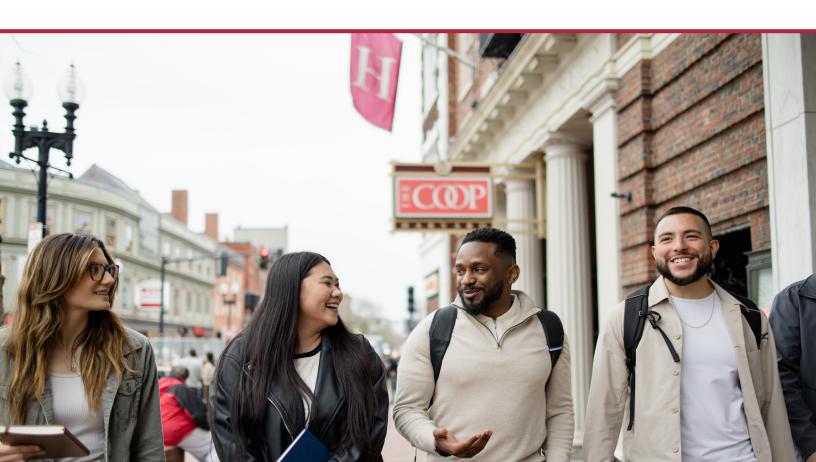
- Core Course
 Example: Foundations of Large
 Language Models
- Elective Course

 Example: Artificial Intelligence,
 the Internet-of-Things,
 and Cybersecurity

Summer

1 Course

Elective Course
 Example: Data Mining,
 Discovery, and Exploration



Year 3

Fall

2 Courses

• Elective Course

Example: Database Systems

Elective Course

Example: Data Engineering for Analytics to Solve Business Challenges

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.

$Spring \ (\hbox{Final Term})$

Capstone Course

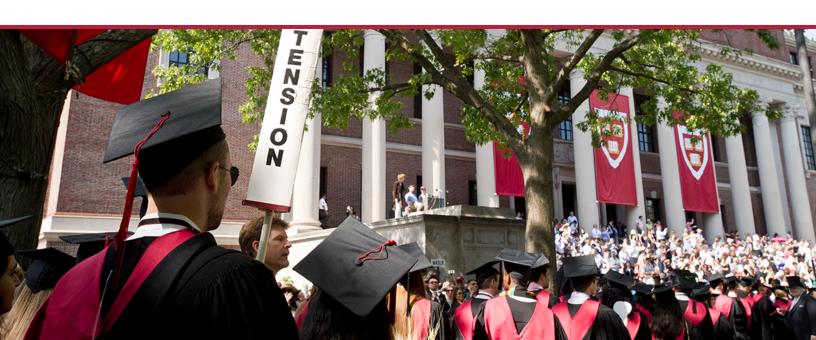
MILESTONE:

 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
 Foundations of Data Science and Engineering

MILESTONES:

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

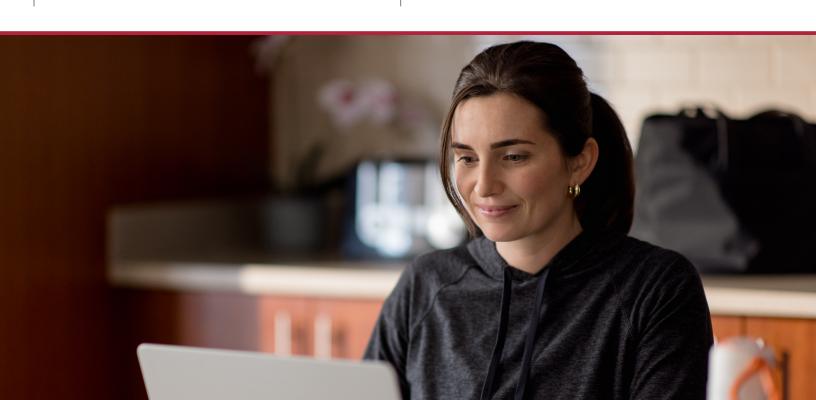
Spring

1 Course

Admission Course
 Statistical Data Modeling

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

• Core Course

Example: Fundamentals of Data
Science II

Elective Course
 Example: Deep Learning

MILESTONE:

- 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

- Core Course
 Example: Foundations of Large
 Language Models
- Elective Course

 Example: Elements of Data

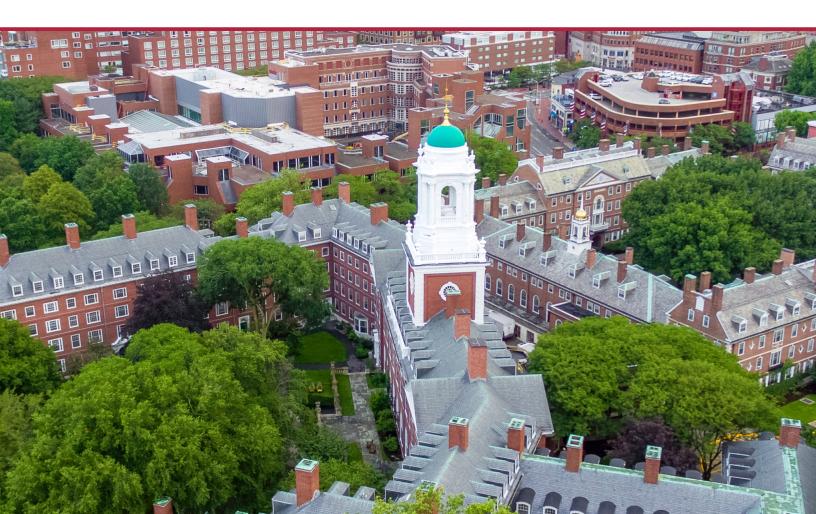
 Science and Statistical Learning

 with R

Summer

1 Course

Elective Course
 Example: Data Science and Artificial Intelligence Ethics,
 Governance, and Laws



Year 3

Fall

2 Courses

- Core Course
 Example: Dynamic Modeling and Forecasting in Big Data
- Core Course

 Example: Data Systems

Spring

1 Course

Elective Course
 Example: Artificial

 Intelligence, the Internet-of Things, and Cybersecurity

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 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.

