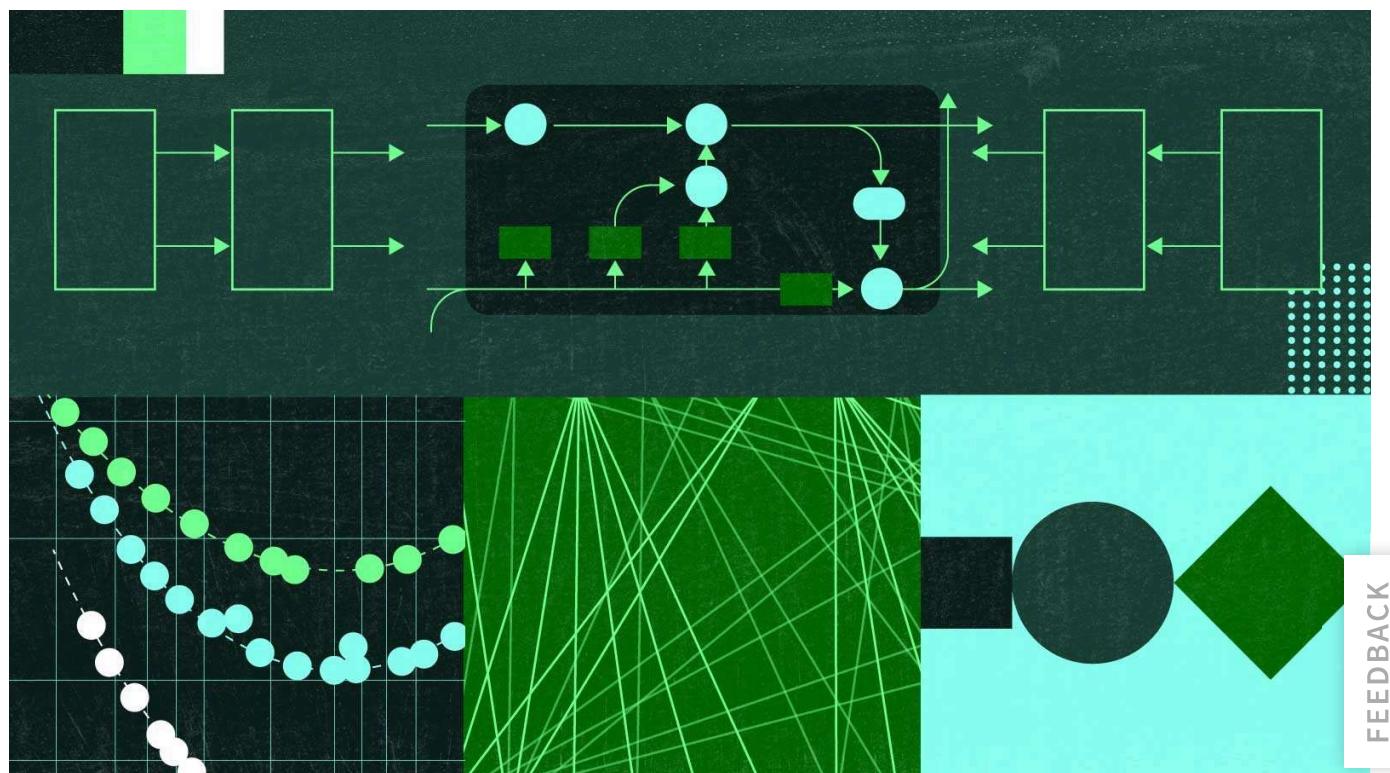


[Home](#) » [Programs](#) » Artificial Intelligence Graduate Certificate



## Artificial Intelligence Graduate Certificate

Stanford School of Engineering

[Graduate Certificate](#)

100% Online, on-demand, 100% Online,  
on-demand, live

[Program Planning Document](#)

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[\\$20,470 - \\$26,775](#)

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## OVERVIEW

*"Artificial intelligence is the new electricity."*

Andrew Ng, Stanford Adjunct Professor



AI is changing the way we work and live, and has become a de facto part of business and culture. This graduate certificate, which has quickly become our most popular, provides you with a deep dive into the principles and methodologies of AI. Selecting from a variety of electives, you can choose a path tailored to your interests, including natural language processing, vision, data mining, and robotics.

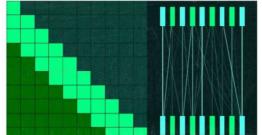
Courses are taught by prominent Stanford faculty whose research is at the forefront of emerging AI developments, including [Andrew Ng](#), [Christopher Manning](#), [Chelsea Finn](#), [Percy Liang](#), [Jeanette Bohg](#).

## COURSES

### REQUIRED (COMPLETE AT LEAST 1)

<b>Machine Learning</b> CS229		100% Online, on-demand, live	Enrollment Closed
<b>Artificial Intelligence: Principles and Techniques</b> CS221		100% Online, on-demand, live	Enrollment Closed

### ELECTIVE (COMPLETE AT MOST 3)

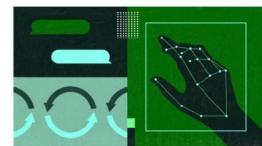
<b>Language Modeling from Scratch</b> CS336		100% Online, on-demand, live	Enrollment Closed
<b>Deep Multi-task and Meta Learning</b> CS330			

100% Online, on-demand, live

Enrollment Closed

## Machine Learning from Human Preferences

CS329H



100% Online, on-demand, live

Enrollment Closed

## Self Improving AI Agents

CS329A



100% Online, on-demand

Enrollment Closed

## Mining Massive Data Sets

CS246



100% Online, on-demand, live

Enrollment Closed

## Principles of Robot Autonomy II

CS237B

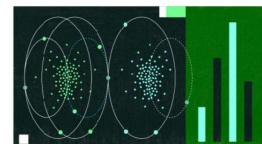


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## Deep Generative Models

CS236

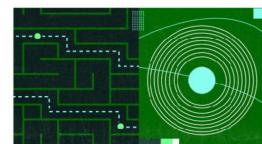


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## Reinforcement Learning

CS234

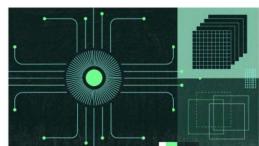


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## Deep Learning for Computer Vision

CS231N

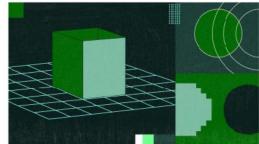


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## Computer Vision: From 3D Reconstruction to Recognition

CS231A

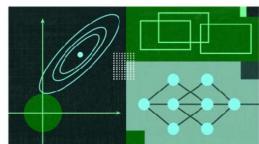


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## Deep Learning

CS230

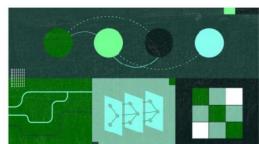


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## Probabilistic Graphical Models: Principles and Techniques

CS228



100% Online, on-demand, live

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## Machine Learning with Graphs

CS224W



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## Conversational Virtual Assistants with Deep Learning

CS224V

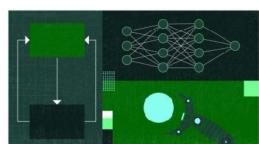


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## Deep Reinforcement Learning

CS224R

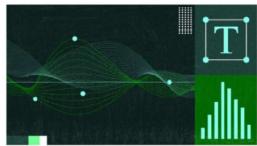


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## Natural Language Processing with Deep Learning

CS224N

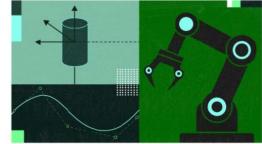


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## Introduction to Robotics

CS223A

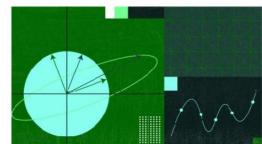


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## Continuous Mathematical Methods with an Emphasis on Machine Learning

CS205L

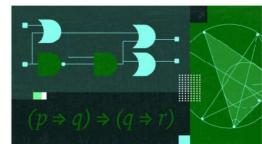


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## Computational Logic

CS157



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Enrollment Closed

## Principles of Robot Autonomy I

CS237A



100% Online, on-demand, live

Enrollment Closed

## Decision Making Under Uncertainty

AA228



100% Online, on-demand, live

Enrollment Closed

## HOW LONG IT WILL TAKE

- Complete four graduate courses within 3 academic years. One or two courses from the required list and two or three from the elective list.

- Your time commitment will vary for each course. You should expect an average of 15-20 hours per week for the lecture and homework assignments.
- Most students complete the program in 1-2 years.
- [CS229](#) is an especially difficult course, we recommend choosing a different course to begin your studies.

## WHAT YOU NEED TO GET STARTED

Before enrolling in your first graduate course, you must complete an [online application](#).

Don't wait! While you can only enroll in courses during open enrollment periods, you can complete your online application at any time.

Once you have enrolled in a course, your application will be sent to the department for approval. You will receive an email notifying you of the department's decision after the enrollment period closes. You can also check your application status in your [mystanfordconnection](#) account at any time.

Learn more about [the graduate application process](#).

## WHAT YOU'LL EARN

You'll earn a **Stanford Graduate Certificate in Artificial Intelligence** when you successfully earn a grade of B (3.0) or better in each course in the program.

With each successful completion of a course in this program, you'll receive a Stanford University transcript and academic credit, which may be applied to a relevant graduate degree program that accepts these credits. If admitted, you may apply up to 18 units to an applicable Stanford University master's degree program (pending approval from the academic department).



This Stanford Graduate Certificate is [accredited](#) by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC).

Graduate Certificates are delivered as a [digital credential](#) document, verified on the blockchain. You'll be able to share your accomplishments, verify your credential, and communicate the scope of your acquired expertise.

## WHAT YOU NEED TO APPLY

- College level calculus and linear algebra including a good understanding of multivariate derivatives and matrix/vector notation and operations (MATH104, MATH113, [CS205L](#) or equivalent).
- You should be familiar with Probability Theory and basic probability distributions (Continuous, Gaussian, Bernoulli, etc.) You should be able to define the following concepts for both continuous and discrete random variables; Expectation, independence, probability distribution functions, and cumulative distribution functions ([CS109](#), [STATS116](#) or equivalent).
- Programming experience including familiarity with Linux command line workflows, Java/JavaScript, C/C++ ([CS108](#) or equivalent) Python, or similar languages.
- A conferred Bachelor's degree with an undergraduate GPA of 3.0 or better.

## NOT SURE IF THIS PROGRAM IS RIGHT FOR YOU?

- Learn about the differences between the [graduate and professional AI Programs](#).

## WHAT OUR LEARNERS ARE SAYING



**Shawn McCann**  
Software Development Manager

The certificate is a symbol of my investment to keep my skills and knowledge up-to-date and of the highest quality.

## NEED HELP?

[Contact Us](#)

## YOU MAY ALSO LIKE



**Computer Science MS Degree**  
CE0050

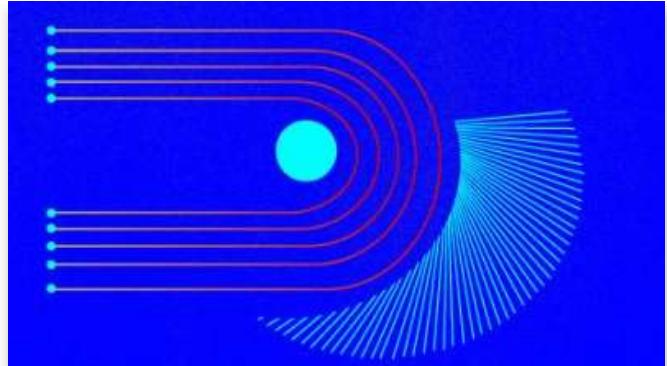
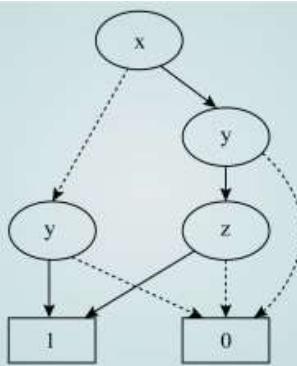
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**Computer and Network Security**  
CS155

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## Program Analysis and Optimizations

CS243

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**WINTER 2024-25:** 100% Online, on-demand, live - Enrollment Closed

## Artificial Intelligence Professional Program

CE0135

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