

# Introductory Machine Learning Certificate

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## Introductory Machine Learning Certificate Requirements

### 9 - 10 credits

Code	Title	Hours
Required Courses		
CS 1400	Fundamentals of Programming (Prerequisites: CS 1030 or Math 1010 or higher MATH course or ACT math score of 23 or higher. )	3
MATH 1050	College Algebra / Pre-Calculus (MA) (Prerequisites: MATH 1010 or MATH 1000 or ACT math score of 23 or higher. )	3-4
or MATH 1060	Trigonometry (MA)	
or MATH 1080	Pre-Calculus with Trigonometry (MA)	
or MATH 1100	Business Calculus (MA)	
or MATH 1210	Calculus I (MA)	
CS 2320	Introduction to Machine Learning (Prerequisites: CS 1400)	3
<b>Total Hours</b>		<b>9-10</b>

## Completion Requirements

- Complete 9-10 hours of specified coursework that includes:
  - 3-4 credit hours of mathematics,
  - 6 credit hours of computing.
- Complete all coursework with a C or higher.
- Cumulative GPA of 2.0 or higher.

## Introductory Machine Learning Certificate Program Learning Outcomes

At the successful conclusion of this program, students will be able to:

- Learn mathematical concepts essential for understanding and applying machine learning algorithms.
- Acquire a foundational understanding of the principles and algorithms of machine learning, setting the stage for further study and practical application of machine learning within the student's chosen field.
- Use open-source tools for machine learning, enhancing their skills in practical implementation and collaboration within the ML community.
- Gain hands-on experience in applying machine learning techniques to real-world problems, enhancing their problem-solving and analytical skills.