



# CIAT

CALIFORNIA INSTITUTE OF APPLIED TECHNOLOGY

# LAUNCH YOUR CAREER IN AI AND MACHINE LEARNING

Associate of Applied Science + Applied Bachelor's Degree in Software Development - AI & Machine Learning Concentration

## Program Overview

Artificial intelligence and machine learning are transforming every industry, creating unprecedented demand for professionals who can build, deploy, and integrate AI solutions into real-world applications. In this 2-step career-focused degree path, master modern software development practices and leverage cutting-edge AI/ML technologies through 5 specialized courses integrated with core programming training. Gain hands-on experience with Python, neural networks, natural language processing, and AI model deployment; skills that position you for emerging roles including AI Developer, Machine Learning Engineer, and ML Operations Specialist, with personalized career support to help you transition into high-demand positions at the forefront of technology innovation.



35 Courses



130 Credits



3.5 Years

75% Technical Courses 25% General Education Courses

## Entry Requirements:

High School Diploma or GED \*Transfer credits may be accepted.

## Available Scholarships:

CIAT Bachelor's Scholarship, up to \$15,000

## Degree + Certifications

Employers in this field expect more than just a degree.

**Earn The Skills & Certifications You Need For**

**A Rewarding Career In Software Development:**

- ✓ Complimentary exam vouchers
- ✓ Unlimited exam attempts\*
- ✓ Test preparation software



## CIAT Virtual Classroom



### Personalized Learning

Small class sizes led by industry experts for a hands-on personalized learning experience



### Accelerated, Immersive Online Courses

Accelerated 5-week live immersive classes keep you focused on learning one topic at a time.



### Real-World Career Preparation

Classes are designed to boost your technical confidence and ensure you graduate career-ready.



We have high standards and we believe you should too. CIAT has proudly earned accreditation from the Accrediting Council for Continuing Education & Training (ACCET) listed by the U.S. Department of Education as a nationally recognized accrediting agency.

Contact Us



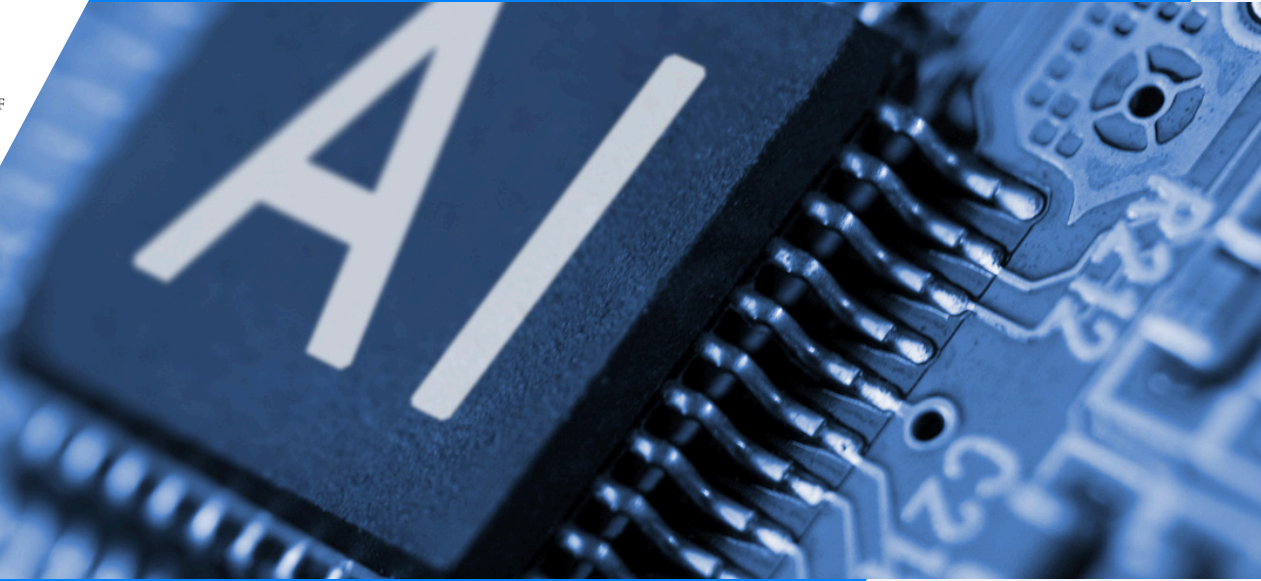
(877) 559-3621



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## Your First Step Towards a New Career

Our 2 + 2 Associate to Bachelor degree path gives you key milestones to transition into the workforce early while completing your degree. Gain exposure to tools, programming languages, and database platforms used by web and software developers in the IT field in your lower division Associate level courses, and deep dive into advanced topics with your upper division Bachelor level courses.

Our Career Services team will support you with personalized career coaching, resume building, and job placement assistance, so you can learn how to present your skills effectively to employers and break into the field. Your unique coding portfolio will help validate your skills to employers and help you stay one step ahead of your competition.

## Our Career Services Team



### Who We Are

We are a team of dedicated professionals with extensive experience in career advising and development.



### Why We're Different

We offer personalized career support designed to meet your unique needs. We prioritize relationship-building and offer ongoing support at every stage of your career journey.



### How We Help

We offer a wide range of services including resume writing, interview preparation, career exploration, and more.



### Our Goal

To empower our students for lifelong career success by providing comprehensive support and resources for their professional development.

## Financial Aid Options

### Federal Grants & Loans

- FAFSA (Associate Only)\*

### Military Benefits

- Post 9/11 GI Bill® Benefits\*
- Yellow Ribbon Program
- Active Duty Tuition Assistance
- Military Spouse Funding (MyCAA)
- Vocational Rehab & Employment

### Private Loans

- Sallie Mae
- Flexible monthly payment plans

### Scholarships

- Merit-based & Financial Need Scholarships
- CIAT Bachelor's Scholarship
- Industry Scholarship
- Women in Tech Scholarship

**CIAT Bachelor's Scholarship**, up to \$15,000

**TUITION: \$85,800 - 15,000 = \$70,800**

To ensure the best completion outcomes, CIAT delivers this degree using a 2 + 2 approach, facilitating students to earn an Associate of Applied Science in Computer Information Systems (or equivalent transferable Associates level degree) prior to taking upper division courses. FAFSA eligibility is currently restricted to Step 1 (Associate's level) of the 2 Step Associates to Bachelor's path.

\* GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <https://www.benefits.va.gov/gibill>. CIAT is approved to offer VA benefits. \*Financial aid is available for those who qualify. \*Students are encouraged to take certification exams while actively enrolled in their Certificate or Degree program. Unlimited certification exam attempts expire 180 days after graduation. Select exams are not eligible for unlimited retakes - see certification exam policy for details. Certifications or courses may change to address industry trends or improve quality.



**Degree**



**Certifications**



**Student Success**

## The 3 Steps to Student Success:

Employers hiring for IT positions today demand more than a degree, they expect candidates to come with resumes stacked with industry certifications. Getting certified helps you stay ahead of your competition, position yourself for higher salaries, and demonstrate to your employer that you have the skills needed for the job. At CIAT, we do everything we can to help you get certified, which includes extending our one-of-a-kind unlimited certification policy to all eligible, active students.

**1**

### Coursework

Learn from industry-certified instructors through live classes and hands-on labs. Build your technical skills and conquer the technical concepts before you prepare for the exam.

### Study for Certification Exam

Our most successful students study several hours each week on top of their coursework to prepare for certification exams. CIAT provides complimentary 4 day bootcamps during term breaks, practice exam software, workshops, and live test prep tutoring for all students.

**2**

**3**

### Pass Certification Exam

Once you reach 90% or higher on two practice exams, you are ready to take the exam. You will receive a voucher from CIAT, schedule your exam, and report your results to CIAT. If you do not pass on your first try, CIAT offers an unlimited certification exam policy to all eligible students for up to 180 days after graduation to take the exam as many times as needed in order to pass.

\*Most exams in the CIAT curriculum are included in our unique Unlimited Certification Exam Policy. A few exclusions do apply.



## Why Earn Industry Certifications?

Employers hiring for positions today demand more than a degree, they expect candidates to come with resumes stacked with industry certifications. Getting certified helps you:

- Enhance your resume
- Be more competitive in the job market
- Earn higher salaries
- Demonstrate your skills and value to your employer

## The CIAT Approach:

Industry certification exams are difficult exams, and many students do not pass on their first attempt. To help student success rates, we encourage all students to study several hours each week on top of their courses and take advantage of CIAT's complimentary support and unlimited number of exam vouchers. CIAT offers:

- Certification workshops
- Complimentary 4 day bootcamps during term breaks
- Live test prep tutoring
- Practice exam software
- Unlimited certification exam policy



## Industry Certifications:

**Associate of Applied Science + Applied Bachelor's Degree in Software Development - AI & Machine Learning Concentration**



## APPLIED BACHELOR'S DEGREE IN SOFTWARE DEVELOPMENT (BASD) - AI & MACHINE LEARNING TRACK

<b>PROGRAM ID</b>	#BASD-AI
<b>LENGTH</b>	175 Weeks, SOC Code: 15-1132, 15-1133
<b>CREDITS</b>	130 Credits (750 Lab Hours; 1575 Lecture Hours)

Students interested in the Applied Bachelor's Degree in Software Development - Software Development Track, must follow this two step enrollment path.

- Step 1: Enroll and graduate from [CIAT's Associate of Applied Science in Software Development](#).
- Step 2: Once graduated from the associate program, students can transfer into the Bachelors Degree in Software Development, with a concentration in Software Development.

The following courses are the education plan for the Associate of Applied Science in Software Development.

### ASSOCIATE DEGREE - CORE COURSES

ID	CLASS	CREDITS
<b>ASD101A</b>	Python Fundamentals, Part 1	<b>4</b>
<b>ASD101B</b>	Python Fundamentals, Part 2	<b>4</b>
<b>ASD102A</b>	Web Development with HTML, CSS, JavaScript, Part 1	<b>4</b>
<b>ASD102B</b>	Web Development with JavaScript, jQuery, Part 2	<b>4</b>
<b>ASD103A</b>	Object-Oriented Data Structures using Python, Part 1	<b>4</b>
<b>ASD103B</b>	Object-Oriented Data Structures using Python, Part 2	<b>4</b>
<b>ASD104A</b>	Web Applications with PHP and MySQL, Part 1	<b>4</b>
<b>ASD104B</b>	Web Applications with PHP and MySQL, Part 2	<b>4</b>
<b>ASD105</b>	Linux Administration and Shell Scripting	<b>4</b>
<b>ASD106</b>	Windows & PowerShell	<b>4</b>
<b>ASD107A</b>	Foundations of Software Engineering, Part 1	<b>4</b>
<b>ASD107B</b>	Foundations of Software Engineering, Part 2	<b>4</b>

## ASSOCIATE DEGREE - GENERAL EDUCATION COURSES

ID	CLASS	CREDITS
<b>ENG</b>	Literature, Technical Writing, or Public Speaking	<b>3</b>
<b>MTH</b>	College Algebra or Statistics	<b>3 - 4</b>
<b>MTH</b>	Pre-Calculus, Calculus 1, or Calculus 2	<b>4</b>
<b>SBS</b>	Psychology, Sociology, or Economics	<b>3</b>
<b>SCI</b>	Chemistry, Biology, or Physics	<b>3</b>

\*Course order will vary. If credits are not fulfilled, GE courses are required throughout your program, cannot be pushed to the end of the program, and will be scheduled based on availability.

Once graduated from the Associate of Applied Science in Software Development, students can transfer into the Bachelor's program with the following education plan.

## BACHELOR DEGREE - CORE COURSES

ID	CLASS	CREDITS
<b>ASD261</b>	Application Security	<b>4</b>
<b>ASD262</b>	Java Programming	<b>4</b>
<b>ASD263</b>	SQL and Database Management	<b>4</b>
<b>ASD264</b>	Coding with AI	<b>4</b>
<b>CIS280A</b>	DevNet Associate Part 1	<b>4</b>
<b>CIS280B</b>	DevNet Associate Part 2	<b>4</b>

## BACHELOR DEGREE - AI & MACHINE LEARNING CONCENTRATION ELECTIVES

<b>DAP300A</b>	Python for Data Analysis, Part 1	<b>4</b>
<b>DAP300B</b>	Python for Data Analysis, Part 2	<b>4</b>
<b>CAI102</b>	Introduction to Predictive Artificial Intelligence	<b>4</b>
<b>CAI103</b>	Natural Language Processing and Agentic AI	<b>4</b>

<b>CAI104</b>	Introduction to Generative Artificial Intelligence	<b>4</b>
<b>CAI105</b>	Azure AI Fundamentals	<b>4</b>
<b>CAI400</b>	AI & Machine Learning Senior Project	<b>4</b>
<b>BACHELOR DEGREE - GENERAL EDUCATION COURSES</b>		
<b>ENG</b>	Literature, Technical Writing, or Public Speaking	<b>3</b>
<b>AHS305</b>	Technology, Society and Culture	<b>3</b>
<b>AHS310</b>	Professional Practice in Ethics	<b>3</b>
<b>PPD300</b>	Critical Thinking and Problem Solving	<b>3</b>
<b>PPD305</b>	Career and Technology	<b>2</b>

Graduation requirements:

- 80% or higher cumulative attendance
- 2.0 or higher cumulative GPA