

The background image shows a University of Florida campus scene. On the left is a tall, blue-tinted clock tower with arched windows. To the right is a large, dark-roofed building with a prominent steeple. The sky is a mix of blue and orange, suggesting a sunset or sunrise. The entire image is framed by a white border.

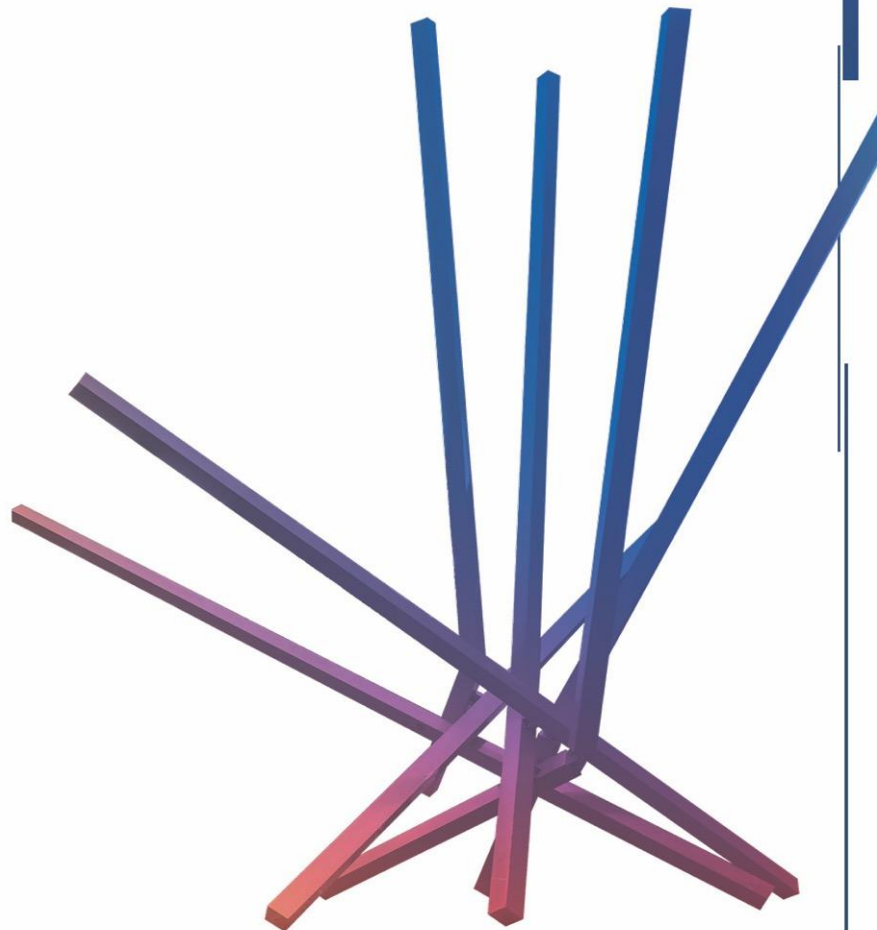
University of Florida Computer Science Education Certificate and MAE Programs

UF COLLEGE OF EDUCATION

<https://education.ufl.edu/computer-science-education>

Agenda

- ★ Who We Are
- ★ Overall Goals (Ours and Yours)
- ★ Program Overview
 - Certificate
 - MAE
- ★ Supports Toward the Goals
- ★ Admission & Logistics



Who We Are – CS Education Program Faculty



Dr. Anthony Botelho
*Assistant Professor, CS
Education and Educational
Technology
College of Education*



Dr. Rui "Tammy" Huang
*Clinical Assistant Professor, CS
Education
Program Coordinator of CS
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Dr. Maya Israel
*Associate Professor, CS
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College of Education
Director, CSEveryone Center for
CS Education*



Dr. Albert Ritzhaupt
*Professor, CS Education and
Educational Technology
College of Education*

Overall Goals – CS Ed Program Goals

Prepare **well-informed** and **competent** CS teachers to:

- Facilitate **creative** and **meaningful learning experience** for K-12 students
- Apply **research-based practice** in K-12 teaching context
- Engage in **reflective teaching** practices

Overall Goals – What You Get from the Programs

- **A certificate or MAE degree** in CS Education **from UF College of Education**
- **Computer Science Certification Exam preparation**
- **CS Teacher Readiness** (CS pedagogy, CS content knowledge and competence, CS teacher identity, etc.)

Program Overview

Certificate Program



<https://education.ufl.edu/computer-science-education/programs/online-certificate>



Program Overview – Certificate

- 9 months, 12 credit hours
- Fully online
- Cohort model
- Synchronous & asynchronous
- No prior CS experience required

Computer Science Content

K-12 CS Programming Foundations I & II
(3-credit each)

Computer Science Pedagogy

K-12 CS Pedagogy I & II
(3-credit each)

Program Overview – Certificate

Roadmap

Fall 2024		Spring 2025	
Course	Week	Course	Week
K-12 Computer Programming Foundations I	16	K-12 Computer Programming Foundations II	16
K-12 Computer Science Pedagogy I	16	K-12 Computer Science Pedagogy II	16

Program Overview

MAE Program



<https://education.ufl.edu/computer-science-education/programs/online-mae>



Program Overview – MAE

- **2-Year, 30 credit hours**

Suggested Course Sequence

Year One

Course Number	Course Title	Semester Available
ETE 6141 ✓	K-12 Computer Science Pedagogy I	Fall (16-weeks)
EDG 6805C ✓	K-12 Computer Programming Foundations I	Fall (16-weeks)
ETE 6142 ✓	K-12 Computer Science Pedagogy II	Spring (16-weeks)
EDG 6806C ✓	K-12 Computer Programming Foundations II	Spring (16-weeks)
EDE 6325	Guided Teacher Inquiry	Summer (8-weeks)

Year Two

Course Number	Course Title	Semester Available
EME 6209	Designing Integrated Media Environments II	Fall (16-weeks)
EDG 6807	Issues and Trends in K-12 Computer Science Education	Fall (16-weeks)

Program Overview – MAE

- **2-Year, 30 credit hours**

Year Two

Course Number	Course Title	Semester Available
EME 6209	Designing Integrated Media Environments II	Fall (16-weeks)
EDG 6807	Issues and Trends in K-12 Computer Science Education	Fall (16-weeks)
EDG 6415	Culturally Responsive Classroom Management	Spring (8-weeks)
EME 6059	Blended Learning Environments	Spring (8-weeks)
EDG 6931	Capstone for Computer Science Education	Spring (16-weeks)

Student Financial Aid and Scholarship

- FAFSA
 - **Graduate** degree: register for 2 courses per semester
 - [How to Apply for Aid](#)
 - Who should apply?
 - Anyway interested in student loan, scholarship, grants
 - [2025-2026 FAFSA Form](#)

Student Financial Aid and Scholarship

- Scholarship
 - 2nd Year MAE: COE level scholarship
 - Potential CS Education specific scholarship
- MAE Level School District Reimbursement



Admission and Logistics

Application Due Date:

July 1, 2025

Admission and Logistics

Program tuitions and fees

FLORIDA RESIDENTS	PER CREDIT HOUR ESTIMATE
2024-2025 Academic Year	\$448.73
Capital Improvement Fund	\$6.76
Student Financial Aid	\$22.43
Technology Fee	\$6.56
Activity and Service Fee	\$19.06
Health Fee	\$15.81
Distance Learning Fee (Summer 2025)	\$29.99
Total Tuition & Fees (resident)	\$549.34

Admission and Logistics

Program tuitions and fees

NON-FLORIDA RESIDENTS	PER CREDIT HOUR ESTIMATE
2024-2025 Academic Year	\$448.73
Capital Improvement Fund	\$6.76
Student Financial Aid	\$22.43
Technology Fee	\$6.56
Activity and Service Fee	\$19.06
Health Fee	\$15.81
Distance Learning Fee (Summer 2025)	\$29.99
Non-FL Resident Fee – Flat Rate	\$690.21
Non-FL Financial Aid	\$34.51
Sub-Total	\$1274.06
2024-2025 AY Flat Rate Waiver**	-(\$586.19)
Total Tuition & Fees (non-resident)	\$687.87

Admission and Logistics

Admission Requirements

- **Current educator** in any content area and school level
- **A bachelor's degree** from a regionally accredited U.S. institution
- A minimum grade point average (GPA) of **2.5 for Certificate** and **3.0 for MAE** in **undergraduate** work
 - **If applicable**, an acceptable graduate grade point average (GPA) for **previous graduate** work

Admission and Logistics

CONTACT INFORMATION

- Admissions: GradAdmissions@coe.ufl.edu
- Program and courses inquiry: Dr. Rui Tammy Huang at rui.huang@coe.ufl.edu



A photograph of a university courtyard. A large, mature tree with thick branches and dense foliage stands in the center. To the left and right are multi-story brick buildings with many windows. The ground is paved with light-colored bricks. There are several black lampposts with white globe lights. A wooden picnic table and a bench are visible in the foreground. The image has a blue tint on the left and a red tint on the right, with a white border around the entire scene.

THANK YOU!

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