# **Engineering Education** (Certificate)

The Colleges of Engineering and Education jointly offer a Graduate Certificate Program (GCP) in Engineering Education. The program is intended for both working professionals, such as community college educators and working engineers who have teaching engineering topics as a part of their job responsibilities, and graduate students enrolled at NC State. Individuals who enroll in the program must have backgrounds in at least one field of engineering, applied mathematics, and/or engineering physics , and would select the program to provide distinction in their academic records that may improve career prospects. Students who wish to pursue a traditional engineering academic career may also choose to take the certificate to enhance their employability at a wider range of institutions and to prepare themselves for educating 21st century engineers.

We enroll both on-campus, and distance education students through Engineering Online (EOL) (including practicing professionals). The GCP will be attractive to individuals who work (or wish to work) in engineering education in academia or industry around the country. This includes engineering graduates who wish to become a tenure track professor and wish to bolster their teaching skills and engineering professionals who want to make a career transition from industry into academia. The course offerings have been structured such that students may tailor it to their individual goals. Each student will choose a minimum of four courses.

## **More Information**

Engineering Education Program Website (https://eed.engr.ncsu.edu/our-offerings/)

# **Applicant Information**

• Delivery Method: On-Campus, Online, Hybrid

Entrance Exam: NoneInterview Required: None

# **Application Deadlines**

Please visit The Graduate School Application Deadlines (https://grad.ncsu.edu/admissions/deadlines/) page for more information.

Plan Requirements

**TED 530** 

Title	Hours		
Engineering Requirements 6			
following courses:			
Teaching Undergraduate Engineers (pending ABGS approval Fall 2022) <sup>1</sup>			
Engineering Education : Content, Assessment, and Pedagogy			
Diversity & Social Justice in Engineering Education (pending ABGS approval Fall 2022) 2	tion		
Ethics and Engineering Education (pending approval ABGS Fall 2022) <sup>2</sup>			
irements	6		
following courses:			
	quirements following courses: Teaching Undergraduate Engineers (pending ABGS approval Fall 2022)  Engineering Education: Content, Assessment, and Pedagogy Diversity & Social Justice in Engineering Educa (pending ABGS approval Fall 2022)  Ethics and Engineering Education (pending approval ABGS Fall 2022)  Frements		

Foundations for Teaching Technology

Total Hours		12
EAC 543	Student Development Theory <sup>1</sup>	
EAC 542	College Environments <sup>1</sup>	
TED 558	Teaching Creative Problem Solving <sup>1</sup>	

<sup>&</sup>lt;sup>1</sup> The EED 501 and EED 502, TED 530, EAC 542, EAC 543, and

# Faculty Professor

Aaron Clark

#### **Associate Professor**

TED 558 are offered yearly.

Wendy Krause

#### **Assistant Professors**

Veronica Catete

Tamecia Jones

# **Teaching Professors**

Laura Bottomley, Director, Engineering Education

Sarah Heckman

# **Teaching Associate Professor**

Kanton Reynolds

### **Teaching Assistant Professor**

Tameshia Ballard Baldwin

<sup>&</sup>lt;sup>2</sup> EED 511 and EED 514 are offered at least in alternating years.