Defense Technologies

Certificate Programs and Short Courses

Learn from experts in defense technologies at a top ranked university with over 50 years of training in this highly specialized field.

Georgia Tech Professional Education provides flexible learning with in-person, remote, on-site, and private course options. You can choose from over 110 courses and 16 certificate programs. When you register for any of our defense technology offerings, you will get unparalleled access to Georgia Tech experts.

Scan the code below to learn more about our entire catalog of courses and certificate programs.

2023 Defense Certificates

Advanced Problem Solving

The Advanced Problem Solving Certificate will teach you how to solve problems that can threaten not only productivity and profit, but also ones that can jeopardize companies and derail careers.

Advanced Systems Engineering

This certificate will help you increase your proficiency of systems architecture, build your knowledge of human, optical or cyber systems or simply learn how to heighten your creativity.

AI, Machine Learning & Data Science

Ranging from machine perception to generative AI and AI security. Participants will gain hands-on experience and understanding to develop, deploy, and secure AI applications across an array of industries and applications. *[COMING SOON]*

Antenna Engineering

Obtain a wide range of mission-critical skills essential to improving products, services, and communications systems in industries such as healthcare, consumer products, utilities, and automobile manufacturing.

Autonomous Intelligent Systems

With the increasing use of unmanned systems in defense and other industries, this program focuses on the intricacies of autonomous capabilities, offering a strong foundation in this rapidly evolving field. *[COMING SOON]*

Avionics

Boost your professional acumen by extending your technical knowledge on existing and new technologies that are being developed in support of manned and unmanned aviation platforms. *[COMING SOON]*

Telecommunications

This certificate equips engineers and program managers with comprehensive knowledge of wireless communication systems, software-defined radios, network management, security, and modern cellular technologies. *[COMING SOON]*

Cybersecurity

Learn how to best mitigate risk, defend your network from threats originating from both outside and inside your organization, understand forensics, and use an applied approach to learning.

Electro-Optical/Infrared (EO/IR) Systems Engineering

This certificate will teach you the basics of EO/IR designs and trades as well as specific designs such as concepts, lasers, missiles, testing, and hardware evaluation.

Electromagnetic Warfare Technology

Understand how electromagnetic warfare systems work and how they are utilized in modern military applications with immediate implications for your daily work.

Infrared & Electro-Optical Tech

Discover how infrared and electro-optical systems operate and understand how to assess their strengths and limitations by learning from current experts in the field and find out about developing technologies straight from the designers.

Modeling & Simulation

Whether you're involved in planning and deploying complex technology, or leading large teams through an array of intricate scenarios, the certificate will give you the skills to understand and use these tools in your daily work and throughout your career.

Phased Array Antenna Engineering

In this certificate you will learn how the different types of phased arrays compare and how to determine which is best for your needs.

Radar Signal Processing & Techniques

From the basic methods and algorithms found at the core of modern systems to more advanced techniques - deepen your understanding of a spectrum of radar technology.

Radar Systems

This certificate will teach you how to understand the concepts behind the design of various systems as well as their limitations and advantages - you'll learn about the latest developments in radar technology and design.

Sensor & Data Fusion

This certificate will teach you how to understand the concepts behind the design of various systems as well as their limitations and advantages - you'll learn about the latest developments in radar technology and design.

Systems Engineering

Acquire more efficient and effective ways for leading and completing projects, creating products, and analyzing customers' and colleagues' needs.

Test & Evaluation

This certificate provides practical knowledge for better developing your systems, serving customers, and creating top quality products for a variety of industries.

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