

# COLLEGE OF ENGINEERING (COE)

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**COE 1000. Freshman Engineering Seminar. 1 Credit Hour.**

An introduction to the engineering profession featuring presentations about the undergraduate degree programs at Georgia Tech with a focus on career options.

**COE 1201. Design Thinking and Innovation for Grand Challenges. 3 Credit Hours.**

A project-based learning course to develop problem solving skills using design thinking with multidisciplinary teams to tackle Grand Challenges facing humanity.

**COE 2001. Statics. 2 Credit Hours.**

Elements of statics in two and three dimensions, free-body diagrams, distributed loads, centroids, and friction.

**COE 2701. Startup Lab: Introduction to Technology Ventures. 3 Credit Hours.**

Elements of technology venture creation including opportunity identification and validation, ideation, customer discovery, market analysis, minimum viable product development, business models, intellectual property, and capital raises.

**COE 2801. Special Topics. 1 Credit Hour.**

Special Topics.

**COE 3001. Mechanics of Deformable Bodies. 3 Credit Hours.**

Stress and strain analysis applied to beams, vessels, pipes, and combined loading; stress and strain transformations; beam deflection; column buckling.

**COE 3002. Intro to Microelectronics and Nanotechnology Revolution. 3 Credit Hours.**

Introduction to microelectronics and nanotechnology: the communications revolution, Moore's law, semiconductors, transistors, MEMS, photonics, analysis of common technological objects, global impact on technology and society.

**COE 3803. Special Topics. 3 Credit Hours.****COE 4803. Special Topics. 3 Credit Hours.****COE 8803. Special Topics. 3 Credit Hours.**