

# "Chicken Soup for the CFD Soul"

This course is intended for engineers and managers with little background or experience in engineering analysis using CFD who want to gain an understanding of what CFD analysis can accomplish and to learn more about how CFD can be used to solve their organization's flow-related design problems.

**Course Title:** "Chicken Soup for the CFD Soul"

**Course ID:** CAE-CFDINT

**Duration:** 1 Day

**Level:** Introductory

**Registration:** \$150.00

[Click here for dates](#)

## Course Objective

This course is a one-day seminar that will describe the fundamentals of computational fluid dynamics (CFD) theory and its applications, using hands-on workshop examples to illustrate the concepts of CFD.

## Description

The goal of the class is to introduce the fundamental elements of CFD via a series of hands-on tutorials.

The attendee will learn the basic concepts required for a CFD analysis and use that knowledge to construct CFD models and perform analysis for workshop problems. By day's end, the student will complete an analysis, examine numerical results, and learn how to quantify the flowfield solution in order to make an engineering assessment.

Extended CFD application examples for various industries will be introduced at the end of the course to provide information on current CFD technology, and how to best utilize CFD for advanced engineering design and applications.

The course is a combination of lecture and hands-on workshop examples. Topics include all the essential parts of a CFD analysis:

- What is CFD?
- Computational Mesh
- Governing equations and physical sub-models
- Boundary conditions
- Numerical methods
- Virtual laboratory – Post-processing
- Representative applications

Each topic will be presented in a lecture, followed immediately by a workshop example.

**Registration:** Register directly with Computer Aided Engineering Associates Ind. at [http://www.caeai.com/class\\_descriptions/main.htm?caecourseid=cfdint](http://www.caeai.com/class_descriptions/main.htm?caecourseid=cfdint)

## Further Information

For further information about this or any of our other courses please email: [sbucet@stonybrook.edu](mailto:sbucet@stonybrook.edu)