CSI 720-721 Checklist

The following list provides resources for reviewing skills necessary for
CSI 720-721 Computational Fluid Dynamics

- In MathXL: Choose any one of the following textbooks from the dropdown menu. Once you have chosen the textbook, click on the words "study plan". Expand the Chapter + to see the individual sections. After clicking on an exercise you will see, on the right, a link to sections of the textbook available to read.
To change textbooks, close your exercise, click on "My Courses" (top left) to bring you back to the screen where you can enroll in a new course and get access to the dropdown menu of textbooks. There are four different textbooks suggested below, covering the same material.

Hass: University Calculus Elements

☐ Chapter 13 – Integration in Vector Fields

☐ Chapter 14 – First Order Differential Equations

☐ Chapter 15 – Second Order Differential Equations

Adams: Calculus, 7e

☐ Chapter 15 – Vector Fields

☐ Chapter 16 – Vector Calculus

☐ Chapter 17 –Ordinary Differential Equations

Thomas' Early Transcendentals Media Upgrade

☐ Chapter 16 – Integration in Vector Fields

Trim: Calculus for Engineers, 4e

☐ Chapter 14 – Vector Calculus

☐ Chapter 15 – Differential Equations

- The MIT Opencourseware website provides free courses with lecture notes and assignments available. The website address is
   http://ocw.mit.edu/OcwWeb/Mathematics/index.htm

☐ 18.152 Partial Differential Equations

☐ 18.303 Linear Partial Differential Equations.