Welcome to Cost Estimation & Metrics

This course is an in-depth study of software metrics, economics, and business cases. The student will learn the theory of measurement, understand the breadth of software metrics, how to define and use them, the state of the art in software cost and schedule estimation, and the essence of software business cases.

This course does not require a text book, instead we will use weekly readings,

2 reference book (optional)

Software Estimation, authored by Steve McConnell. Microsoft Press, 2006, ISBN 978-0-7356-0535-0.

Software Metrics, authored by Norman Fenton and James Bieman. CRC Press, 2014, ISBN 978-1-4389-3822-8.

Reading and written assignments are shown in the Canvas *Modules* section, accessed from the left-hand menu. Discussion forums and assignments are also shown below.

If you have any questions, send me email at rens@stevens.edu.

SSW533 Spring 2024 Schedule

Week	Topic	Date	Homework Assignment
1	Introduction & Measurement Theory	January 23, 2024	HW1
2	Data Analysis	January 30, 2024	HW2
3	Measuring Size	February 6, 2024	HW3
4	Complexity & Function Points	February 13, 2024	HW4
5	Function Points	February 20, 2024	HW5
6	Agile Estimation	February 27, 2024	HW6
7	Midterm	March 5, 2024	
8	**Spring Break**	March 10-17 2024	
9	Defects	March 19, 2024	HW7
10	Reliability	March 26, 2024	HW8
11	Performability and Presentability	April 2, 2024	HW9
12	In-Process Metrics	April 9, 2024	HW10
13	**Break**	April 16, 2024	
14	Software Analytics	April 23, 2024	HW11
15	Performance Metrics & Applications	April 30, 2024	HW12
16	**Final Exam**	May 7, 2024	