

COURSE OUTLINE FOR ESE 124
SPRING 2018

INSTRUCTOR:

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**RECOMMENDED (BUT NOT
REQUIRED) TEXT FOR**

SUPPLEMENTAL READING: **Stephen Kochan**, *Programming in C (3rd
Edition)*, SAMS Developer's Library.

This book may be downloaded as a *free* pdf
file from the internet.

- 1 Background information. Becoming familiar with using the Microsoft Visual C++ Express Edition. Designing and running simple programs
- 2 Variables, data types and arithmetic expressions
3. Looping. The *for*, *while*, *do while*, *break* and *continue* statements. Nested loops
4. Making decisions. The *if* statement, the *if else* construct, the *switch* statement
5. Working with prototype functions. Method of call by value
6. Working with arrays and matrices
7. Character strings
8. Pointers. Method of call by reference
9. Datafiles, exporting datafile to Microsoft Excel for graphing