

Spokane Falls Community College  
**COURSE LEARNING OUTCOMES AND OUTLINE**

---

**Prefix and Course Number**    ENGR 240  
**Course Title**                      Applied Numerical Methods for Engineers

Last Modified: Winter 2021

---

**Course Learning Outcomes**

**By the end of this course, a student should be able to:**

1. Articulate the tradeoffs between easy computation and accuracy.
2. Execute basic commands and scripts in a mathematical programming language.
3. Demonstrate proficiency in the use of input/output commands including: command line, file and graphical.
4. Create changes in program flow using control structures.
5. Modularize program construction and increase code re-use using functions.
6. Design programs using a top-down methodology.
7. Select appropriate numerical methods to apply to various types of problems in engineering and science in consideration of the mathematical operations involved, accuracy requirements, and available computational resources.