Introduction to Engineering

- EGR 1010: Introduction to Engineering for Engineers and Scientists

This course is a two-semester Introduction to Engineering that is based on two courses taught at Prince George's Community College: EGR 1140 Computer Programming for Engineers & Scientists and EGR 1010 Introductory Engineering. This course assumes a remix of the two for better flow.

- Front Matter
- 1: Preface
- 2: Description of topics
- 3: What we intend to learn here
- 4: What is engineering? Who are engineers?
- 5: What is a computer?
- 6: Understanding (how to investigate on your own)
- 7: Operating Systems with Brief History
- 8: Brief History of Popular Programs
9: Programming in any language
- 10: Parachute Person
- 11: Historical case studies in Engineering
- 12: Case Study on Nanotechnology
- 13: Student led case study in engineering
- 14: Fundamentals of Engineering
- 15: Laboratory Project for Introduction to Engineering
- 16: Beyond the basics of computers
- 17: Documentation and such
- 18: Advanced Programming Concepts
- 19: Using Computers for Engineering and Science
- 20: Program Design Project
- 21: Ethics and Group Dynamics
- 22: Storage of tests of Libretext's ability
- Back Matter