Virginia Western Community College SDV 101 Orientation for Engineering

<u>Prerequisites</u> None

Course Description

Introduces students to the skills which are necessary to achieve their academic goals, to services offered at the college and to the discipline in which they are enrolled. Covers topics such as services at the college including the learning resources center; counseling, and advising; listening, test taking, and study skills; and topical areaswhich are applicable to their particular discipline. Explores the careers, skills, and pathways in engineering and mathematics.

Semester Credits: 1 Lecture Hours: 1 Lab/Recitation Hours: 0

Required Materials

Textbook:

None required

Other Required Materials:

Pencil Paper Scientific calculator

VIRGINIA WESTERN COMMUNITY COLLEGE School of Science, Technology, Engineering, and Mathematics (540)-857-7273 3080 Colonial Ave. SW Roanoke, VA 24015

The following supplementary materials are available:

- 1. VWCC College Catalog
 http://www.virginiawestern.edu/catalog/
- 2. VWCC Student Handbook http://www.virginiawestern.edu/documents/StudentHandbook.pdf
- 3.

Course Outcomes

At the completion of this course, the student should be able to:

- A. Be familiar with the contents of the college catalog, including programs of study that the college offers, requirements for graduation, GPA calculation, admission policies and academic regulations.
- B. The student will know where to locate specific services including the learning technology center, library, disability services, and financial aid.
- C. List and describe specific methods to:
 - 1. Improve ability to recall information
 - 2. Manage time more efficiently
 - 3. Read a textbook with improved retention
 - 4. Prepare for and take tests
 - 5. Take effective notes

6. Discuss several procedures for focusing attention on the task at hand when reading, listening, taking notes and tests

- D. The student will have a better understanding of social and personal issues that affect college success including diversity, substance abuse, financial management, and interpersonal relationships.
- E. The student will learn small group activities how to more effectively communicate and interact with other students, counselors, and faculty.

Topical Description

w well do you know VWCC? Introduction to the College VWCC Rules & Regulations The Student Handbook, Class Schedule, College Catalog o are you and what do you want? Student information sheet College/career goals / Why you chose your major Academic matriculation program The Engineering team and their duties Engineering opportunities at else can I do with an engineering degree? Extracurricular activities National societies what are you doing with your 168 hours? And your money? Time organization
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Time organization
Money management
at haven't engineers touched?
Understanding some of today's devices
should you 'blow the whistle' on your boss?
Engineering ethics and professionalism
now did you get that answer?
Reading for retention
Problem-solving techniques
Creativity / Estimating
s all this math really that important?
Applications of mathematical concepts
Units and conversions
Trigonometry / Geometry concepts
Introduction to force concepts
Scalars and vectors
Force analysis / Material science
at will putting your finger in a wall outlet do?
Introduction to electricity
Electrical circuit lysis

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What did that Professor say yesterday?
Ways to improve memory and academic success

Notes to Instructors

- 1. Homework assignments, quizzes, reports, final exam are all subject to change during the course of the semester and will be announced in class.
- 2. Homework will be assigned during class periods as required.
- 3. The final exam/project is worth 10-15% of the final grade.

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