

**MONTGOMERY COLLEGE**  
**Dept. of Physics and Engineering, Rockville**  
**ENES 104 Introduction to Engineering Professions**

**Course Description:**

ENES 104 Introduction to Engineering Professions 1 credits

An introduction to the profession of engineering; guidance in the study of engineering and the fields of engineering, ethical responsibilities of engineers, and engineering hand-on activities.

The course will provide information useful for making decisions in engineering fields of study and careers. Ethical and legal aspects of the engineering profession will be discussed.

Workshops for resume writing, participation in the engineering club and field trips may be required.

*Assessment level: ENGL 101/101A, READ 120 and MATH 093/096 or higher. One and one-half hours lecture/seminar each week.*

**Instructor:**

C. Alex Hou, PhD, PE

Department of Physics and Engineering

Office: SC 436D

Phone: 240-567-7608

e-mail: [chienannalex.hou@montgomerycollege.edu](mailto:chienannalex.hou@montgomerycollege.edu)

**Required Text Book:**

“Engineering Your Future- A Brief Introduction to Engineering” by W. Oakes etc, published by Oxford University Press.

**Contents:**

1. Introduction to engineering professions
2. Engineering program at Montgomery College and transfer issues
3. Engineering ethics
4. Engineering/science seminars
5. Engineering Clubs and activities
6. Writing Clinics/Resume writing

**Attendance and Grading:**

- |                                 |      |
|---------------------------------|------|
| • Engineer profile/Presentation | 25 % |
| • Personal Study Plan/Resume    | 15 % |
| • Essay writing                 | 10 % |
| • Engineering ethics            | 10 % |
| • Abstracts of seminars         | 10 % |
| • Attendance                    | 30 % |

**Support Service:**

A student who may need an accommodation due to a disability should talk to me as early as possible. A letter from Disability Support Service (DSS) authorizing your accommodations will be needed.