

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: EET 225
Course Name: Air Quality
Credits: 2
Contact Hours: 2 Lecture

Course Description: This course will introduce the student to the concepts and terms essential to understanding the major issues surrounding air pollution. Basic atmospheric processes will be presented as they affect delivery and dispersion of pollutants. Sampling and analysis methods will be discussed. The health effects of various pollutants and air toxics will be presented in order to understand the purpose of air pollution regulations. The increasing concerns regarding indoor air quality will be presented along with approaches to investigation and control.

Prerequisites: EET 102 and EET 106

Textbooks: <http://bookstore.wdt.edu>

Materials: Notebook or notepaper, pencil and/or pen, and laptop computer with wireless Internet connection capability

Student Learning Outcomes:

- Explain how atmospheric processes transport pollution around the world
- Describe the composition of the Earth's atmosphere and the effects of atmospheric gases on climate
- Describe the various sources of the major pollutants in our air such as acid rain, toxic chemicals, and photochemical smog and their impacts on the environment
- Explain how air pollution affects human health and the environment

Assessment: Students' life skills, analytical skills, communication skills, and employability will be assessed throughout the course.

ADA Accommodations: Students Rights to Assistance or Accommodations: Western Dakota Technical Institute (hereinafter WDT) does not discriminate on the basis of disability. If you have a disability as defined by federal or state law, including a temporary disability related to pregnancy and/or parenting as a result of a medical necessity due to childbirth, WDT will provide reasonable accommodations including but not limited to architectural access, aids and services necessary for effective communication, and modification of its policies and procedures. Students with a disability who are requesting an accommodation should contact your instructor and the

Student Success Director who serves as the disability coordinator as early as possible in the semester.

Notice of Non-Discrimination: WDT will not tolerate racism, discrimination, harassment, exploitation or victimization of students, school employees, non-employees, or any person who is an invitee of WDT for any reason, including but not limited to race, color, ethnic background, national origin, pregnancy, student marital status, religion, creed, age, sex, citizenship, political affiliation, mental and/or physical challenge, disability, sexual orientation, gender identity, or status as a veteran. WDT is committed to providing an environment free from harassment and other forms of discrimination for students, employees, non-employees and its invitees. The following person has been designated to handle inquiries or complaints regarding the non-discrimination policies: Student Success Director