



## TED100 General Drafting Syllabus

### Course Information

Credits	4
Campus	Washburn Institute of Technology
Address	5724 SW Huntoon
City/State/Zip	Topeka, Kansas 66604
Office Fax	785-273-7080

### Description

Introduces the application of fundamental drawing types which includes geometric construction, orthographic views, sections, auxiliary views, and development. Instruction in the care and use of the tools and equipment.

### Textbooks

Engineer Drawing & Design; Jensen, Helsel, Short; McGraw Hill; 2008; 7<sup>th</sup> edition; ISBN: 978-0-073-52151-0.

### Student Learning Outcomes:

- A. Communicate effectively
- B. Integrate technology
- C. Learn effectively
- D. Demonstrate cooperative teamwork skills
- E. Apply safety in the workplace
- F. Think critically and creatively
- G. Demonstrate responsible work ethics

### Competencies

- 1. Recognize the fields of drafting
- 2. Use basic drafting tools and equipment
- 3. Identify standard drafting media
- 4. Identify standard reproduction media
- 5. Describe occupational opportunities for a specific career
- 6. Freehand sketch orthographic and pictorial views
- 7. Construct orthographic views
- 8. Utilize basic geometric construction
- 9. Utilize reprographic processes
- 10. Construct detail drawings
- 11. Construct sectional drawings

12. Construct auxiliary views
13. Construct intersections and developments
14. Solve mathematical problems related to drafting
15. Apply principles to basic CAD
16. Use correct conventions on a geometric drawing
17. Use correct conventions on a orthographic drawing
18. Demonstrate the proper use of dimensioning on detail drawings
19. Use correct conventions on auxiliary drawings
20. Use correct conventions on sectioned drawing

## **Guidelines for Success**

### **Assessment Plan**

Assessment is an integral part of the educational process at Washburn Tech and accurate feedback is an important tool in continuously improving the institution's technical programs. Students can expect to participate in assessment activities prior to entry into programs, within specific courses and following program completion for specific fields of study.

Grading Criteria:

- A 92% - 100%
- B 84% - 91%
- C 76% - 83%
- D 68% - 75%
- F 67% or below

### **Attendance**

A student can receive 1 hour make-up by completing a two page typed paper, on an approved subject, double spaced, 12 point font, and with at least 2 sources identified.

## Disability

The Special Support Services (SSS) Office is responsible for assisting in arranging accommodations and for identifying resources at Washburn Institute of Technology for persons with disabilities. Qualified students with disabilities MUST register and provide documentation with the office to be eligible for services. New requests for accommodations should be submitted two months or more prior to the date services should begin; however, contact the SSS Office as soon as a need may arise. Depending on the accommodation request, four to eight week lead time may be needed for timely and effective provision of services. SSS coordinates and assist in arranging services it deems appropriate of eligible students on a case-by-case basis.

If you are a student with a disability that may substantially limit your ability to participate in this class and believe you will need accommodations, it is your responsibility to contact:

Special Support Services Coordinator

Phone: 785-228-6356

E-Mail: [ssscoordinator@washburn.edu](mailto:ssscoordinator@washburn.edu)

