

SYLLABUS/COURSE OUTLINE

**DIVISION:** Business and Engineering Technologies

**CURRICULUM IN WHICH COURSE IS TAUGHT:** Computer Aided Drafting and Design Technology

**COURSE NUMBER AND TITLE:** DRF 115 Drafting II

**CREDIT HOURS:**4 HOURS/WK LEC:1 HOURS/WK LAB:9 LEC/LAB

**COMB:**10

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- I. **COURSE DESCRIPTION:** Teaches geometric construction, orthographic projection, sections and conventions, pictorial drawings, isometric principles, oblique drawing, and dimensioning. Part II of II.
- II. **RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:** Emphasizes professional drafting penmanship, drafting complete details from rough engineering sketches, define and draw objects using proper size, shape, form and spatial relationships.
- III. **REQUIRED BACKGROUND:** The student must have mastered the skills acquired in DRF 114 or a comparable introductory drafting class.

**IV. COURSE CONTENT:**

- Auxiliary views
- Application of pictorial methods and principles
- Isometric dimensioning procedures
- Isometric applications of section drawings

**V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE (Place X by all that apply)**

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| <input checked="" type="checkbox"/> Communications       | <input type="checkbox"/> Cultural and Social Understanding |
| <input checked="" type="checkbox"/> Critical Thinking    | <input checked="" type="checkbox"/> Quantitative Reasoning |
| <input type="checkbox"/> Personal Development            | <input type="checkbox"/> Scientific Reasoning              |
| <input checked="" type="checkbox"/> Information Literacy |  |

## VI. LEARNER OUTCOMES

## VII. EVALUATION

<b>Learner outcome</b> <ul style="list-style-type: none"><li>• Develop and draw auxiliary views of an angled surface in an orthographic drawing</li></ul>	<b>Evaluation method</b> In-class drawings Written/performance test
<b>Learner outcome</b> <ul style="list-style-type: none"><li>• Create isometric sketches of mechanical parts</li></ul>	<b>Evaluation method</b> In-class drawings Written/performance test
<b>Learner outcome</b> <ul style="list-style-type: none"><li>• Develop pictorial presentations of mechanical parts including isometric and oblique drawings</li></ul>	<b>Evaluation method</b> In-class drawings Written/performance test
<b>Learner outcome</b> <ul style="list-style-type: none"><li>• Draw isometric section drawings of mechanical parts</li></ul>	<b>Evaluation method</b> In-class drawings Written/performance test
<b>Learner outcome</b> <ul style="list-style-type: none"><li>• Develop pictorial presentations of a structure using perspective drawing methods</li></ul>	<b>Evaluation method</b> Isometric drawing of a building

## COURSE OUTLINE

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**DRF 115**

**Drafting II**

Spring Semester

**COURSE SECTION NUMBER/TITLE:** DRF 115-01 Drafting I

**COURSE PREREQUISITE(S):** None

**SEMESTER:** Spring

**INSTRUCTOR:** Robert Huffman

**OFFICE NO:** Wyatt 209 in the classroom

**OFFICE HOURS:** Tues & Thurs 1:00-4:30 Fri 1:30-4:00

**TELEPHONE:** 434-797-8548      **e-mail –** [rhuffman@dcc.vccs.edu](mailto:rhuffman@dcc.vccs.edu)

**TEXTBOOK :**      Technical Graphics Communication - Bertoline, Wiebe, Hartmen,  
Ross              ISBN 9780073128375

**COURSE CONTENT:** Application of 2 dimensional auxiliary view drawing procedures. Application of pictorial drawing methods and principles. These include isometric section and convention techniques.

**ATTENDANCE REQUIREMENTS:** Regular attendance is necessary for successful completion of this course. Two tardies will count as one absence. Quizzes given during class can not be made up if the student is absent but tardy students may make up a quiz that day. **No exceptions will be made.**

**GRADING PROCEDURES:** The grade will be based on performance on various lab problems designed to teach and sharpen drafting skills as well as quizzes and tests.

**APPROXIMATE VALUE OF ASSIGNMENTS:**

Drawings	65%
Tests and quizzes	15%
Final exam	20%

Letter grades will be determined as follows:

A - 100-92

B – 91-84

C – 83-76

D – 75-68

F – Under 68

## **CONDUCT**

The use of any tobacco products in the classroom is prohibited.

**Cell Phones** – Cell phones are not to ring during class lectures but are permitted during lab time. During lectures, set them to vibrate if possible or turn them off until the lecture is finished. If your phone rings during a lecture, you may leave the class to answer it but do not return to the lecture that day. Students leaving class to answer phones during tests will not be permitted to continue the exam if they choose to leave the class. Students may not answer phone calls during tests.

## **STUDENTS WITH SPECIAL NEEDS:**

- ✓ If you are a student with special medical needs, please inform me as to how I can best assist you. All information will be considered confidential.
- ✓ If you are a student who needs special ADA-related accommodations, please inform the DCC ADA Coordinator at 434-797-8572. All information will be considered confidential.

## **PLAGIARISM AND ACADEMIC DISHONESTY**

Students will be expected to maintain complete honesty and integrity in their academic work in this class. Acts of academic dishonesty, such as cheating, plagiarism, or inappropriately using the work of others to satisfy course requirements, will not be tolerated and may result in failure of the affected assignments and/or failure of this class.

## **TUTORING**

DCC offers free tutoring to all students. If you experience any difficulty with this course, please immediately contact Letitia Lunsford in the Tutoring Center (797.6432) located in the Learning Assistance Center. Ms. Lunsford will help you schedule your tutoring sessions. To get the greatest benefit from tutoring, you should go as soon as you start experiencing difficulty and go on a regular basis.

**The instructor reserves the right to make changes to the syllabus during the semester.**

## **Assigned Drawings and Quizzes and Exams**

### **Auxiliary Views**

Due 1/23/12

13.25 – The right side view will be the right isometric plane. Draw a front, right, and partial auxiliary view projecting from the right side view.

Due 2/6/12

13.28 – The front view will be the left isometric plane. Draw a front, top, and partial auxiliary view projecting from the front view.

Due 2/13/12

13.33 – The front view will be the left isometric plane. Draw a front, right, and partial auxiliary view projecting from the front view.

Due 2/27/12

13.42 – The front view will be the right isometric plane. Draw a front, top, and two partial auxiliary views. Draw one projecting from the top view and one from the front view.

**Auxiliary view Quiz**

**Dimensioning Quiz**

**Pictorial Drawings** You are to do the drawings in the order listed below.

**Due dates for pictorial drawings TBA**

Problem 2 Guide Block pg 629 front view is the left isometric plane

Problem 1 Stop Block pg 629 front view is the left isometric plane

Problem 4 Hinged Catch pg 629 front view is the left isometric plane

Problem 3 Bracket pg 629 front view is the left isometric plane

Problem 7 Wedge Block pg 629 front view is the left isometric plane

Problem 5 Offset Bracket pg 630 front view is the left isometric plane

Do an isometric half section of the left spotface

Problem 9 Dovetail Bracket pg 630 front view is the left isometric plane

Section something that shows internal detail. You decide.

**Perspective of a building** (must be approved by the instructor)

**Exploded isometric drawing** – You can select an assembly with a minimum of 3 parts and draw it only with the instructor's approval. Ask before you start drawing. The instructor reserves the right to select your drawing.

**Final Exam**

## Dates to Remember

Calendar      Spring 2014

Spring Session, 2014	Dates	Times
<b>Advising/Registration by Appointment for Spring 2014</b>	January 2-3; 6-10	<b>8 a.m. - 4:30 p.m.</b>
<b>Registration, Payment of Tuition &amp; Add/Drops</b>	January 2-3; 6-10	
Faculty Planning and Preparation Days	January 2-3; 6-10	
<b>Classes Begin</b> <b>NOTE: Not all classes start on this date or this week. Check your schedule for the correct dates to determine when your classes will start.</b>	January 13	
Late Registration	January 13-17	
Last Day for New Registration	January 17	
Holiday (College Closed)	January 20	
*Swaps/Drops only	January 21-22	
<i>*Swaps cannot be processed without the approval of the instructor.</i>		
<b>Last Day to Withdraw with Full Tuition Refund</b> <b>NOTE: Classes of shorter duration may have different deadlines.</b> <b>Contact the Admissions Office at 434.797.8467 for more information.</b>	January 28	
Mid Term Grades Posted	March 3--7	
Spring Break	March 10--14	
<b>Last Day to Withdraw w/o Mitigating Circumstances (W grade issued)</b> <b>NOTE: Classes of shorter duration may have different deadlines.</b> <b>Contact the Admissions Office at 434.797.8467 for more information.</b>	March 21	
Advising by Appointment/ Registration for Summer Semester 2014	April 1--29	
Institutional Effectiveness Day	April 9	
Classes End	May 5	
Exams	May 6 - 9; 12	
Faculty Planning and Preparation Days	May 13--16	
Graduation	May 16	