## NORTHEASTERN TECHNICAL COLLEGE
### COURSE OUTLINE

<table>
<thead>
<tr>
<th>COURSE:</th>
<th>PREFIX NO.</th>
<th>EFFECTIVE DATE</th>
<th>NEXT REVIEW DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGT</td>
<td>115</td>
<td>Spring 2010</td>
<td>Spring 2012</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TITLE:</th>
<th>CREDITS</th>
<th>CONTACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Graphics II</td>
<td>4</td>
<td>3 - 3 - 4</td>
</tr>
</tbody>
</table>

**PREREQUISITES:** EGT 110 with a grade of “C” or better.

**DESCRIPTION:** This course in Engineering Graphics Science includes additional drawing techniques for industrial applications.

**TEXTBOOK(S) OR ALTERNATIVE:** Graphics Technology, by James H. Earle. 2nd edition

**MATERIALS (specifying those to be purchased by student):**

- Drafting brush
- Architect's scale
- Lead pointer
- Drafting tape
- Erasing shield
- Lead pointer - sandpaper
- 30-60-90 triangle
- 45-45-90 triangle
- Lead holder - 2
- 6" bow compass
- 4" bow compass
- Leads - 2H and 5H
- Dry cleaning pad
- Eraser
- Protractor
- Ames lettering guide

**COLLATERAL READING:**

**CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):**

A. Academic Honesty: During a test, as well as on any written assignment, paper, or project, anyone determined to be exchanging information or copying someone else’s work will be given a grade of “F” on that work and face further disciplinary action. Please refer to the “Student Code Book” on “Academic Dishonesty” section.

B. No more than 10% (9 hours for a typical semester) of the scheduled class hours may be missed; attendance will be kept "by the hour", including any tardiness or early leaving.

1) Students are expected to be in class on time and ready to start working.

2) Students are to remain working until the end of the class period. No student should leave class early without the permission of the instructor.

3) There are no excused absences except those verified by
other instructors for field trips or school related activities.

4) A student with a doctor’s excuse will be able to make up missed work, but the absence will still count toward the maximum number of absences allowed.

5) A student is tardy if he/she arrives for class after the instructor has checked the class roll. Three tardies will count as one absence for day students. Time missed for night students will be accumulated until an even hour has been missed. Students should strive to get to class on time each day.

CLASS MANAGEMENT ACTIVITIES: (continued)

D. The required drawings will be done in class.

E. The use by students of lockable drawers in drafting tables of the Engineering Graphics lab will generally follow Procedure 4.2.23. This procedure points out, among other things, that

1) A drawer is assigned to a student for the length of the enrollment (i.e., one term). The key is to be returned at the end of the term; the drawer may be re-assigned at the next term.

2) Only EGT class materials may be stored. Illegal items are expressly forbidden and an inspection may be made at any time following Procedure 4.2.23.

3) No grade will be assigned to a student until the key has been returned.

4) The class instructor will maintain a list of what keys are assigned to which students.

F. No food, drink or cell phones are permitted in the classroom.

G. It is mandatory that every student wear his or her student ID at all times when on the Cheraw campus. During the first week of classes, the instructor will issue a reminder to wear the ID. This reminder is a warning. After the first week of classes, instructors are required to dismiss students without ID from class. The student may get his/her ID (or a new one in Student
Services for $3.00) and return to class before the midpoint of the class. If the student cannot get an ID and return to class by the midpoint, the instructor will record the absence.

H. Students with disabilities are encouraged to contact the Vice President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog)

COURSE TOPICAL OUTLINE  (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.

Drawing assignments:  (drawings and figures are from the text)

Minimum 32 Drawings

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TEXT CHAPTER</th>
<th>PROBLEMS/ASSIGNMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>10</td>
<td>10.65 (3 Drawings), 10.66 (3 Drawings), 10.67 (1 Drawing) (English), 10.70 (1 Drawing)</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
<td>READ</td>
</tr>
<tr>
<td>4-6</td>
<td>12</td>
<td>FIGURE 12.81 Plain Paper-No grid paper. #1 thru #12. Supply missing lines, dimensions, and title block Dimensions.</td>
</tr>
<tr>
<td>7-12</td>
<td>12</td>
<td>FIGURE 12.82, #25 thru #32 (1) one per sheet.</td>
</tr>
<tr>
<td>13-15</td>
<td>13</td>
<td>Page 239 Sheet 2 (11.A), Page 240 Sheet 3 (12), Sheet 7 (16.A) DRAW ASSIGNED DRAWINGS, PER INSTRUCTOR</td>
</tr>
</tbody>
</table>

OBJECTIVES OF COURSE:

1. Demonstrate proper usage of drawing instruments.

2. Demonstrate competence with the basic principles and practices used in industrial mechanical drafting.
3. Demonstrate acceptable lettering.

4. Prepare orthogonal multiviews as assigned.

5. Use proper dimensioning techniques, including geometric tolerancing.

**INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:**
Instructor will demonstrate proper usage of drawing instruments.

**EVALUATIVE METHODS TO APPRAISE OBJECTIVES:**
1. Grading will be based on the instructor’s evaluation of assigned drawings (line weights, neatness, dimensions, construction, lettering) - 90%; and on class work (diligence, effort, attendance) - 10%.

2. All drawings assigned must be completed or will receive a grade of “0” for incomplete drawings.

**GRADING SCALE:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90 - 100</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89</td>
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<tr>
<td>C</td>
<td>70 - 79</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69</td>
</tr>
<tr>
<td>F</td>
<td>BELOW 60</td>
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</tbody>
</table>