### 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>AET</td>
<td>111</td>
<td>SPRING 2015</td>
<td>SPRING 2016</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TITLE:</th>
<th>CREDITS</th>
<th>CONTACTS: CLASS – LAB – TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Computer Graphics I</td>
<td>3</td>
<td>3 0 3</td>
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**PREREQUISITES:**

**DESCRIPTION:** This course includes architectural/construction, basic computer-aided design commands, and creation of construction industry symbols and standards.

**TEXTBOOK(S) OR ALTERNATIVE:** Architecture: Residential Drafting and Design, by Clois Kicklighter; Goodheart-Willcox Company

**MATERIALS (specifying those to be purchased by student):** Materials provided are course outline and lab equipment. Students will provide textbook, paper, pencils, a scientific calculator and flash drive (1 GB minimum).

**COLLATERAL READING:** None

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

**ACADEMIC HONESTY:** Students are expected to do their own work. Please refer to the NETC Student Code and Grievance Procedure for a definition of academic dishonesty and an outline of the disciplinary action that may result therefrom.

**ATTENDANCE:** Students are expected to attend all scheduled classes, however, up to 20% of absences are allowed for unavoidable hardships such as illness or car trouble. A student missing more than the 20% of class for any reason will be dropped from the course for excessive absences. A grade of “W” will be assigned if a student drops from a class prior to mid-term. After mid-term, a grade of “WF” is assigned unless there are extenuating circumstances and the student is passing the course at the time of withdrawal.

**TARDIES:** A student is considered tardy if he/she arrives for class after the roll has been taken. Three tardies constitute one (1) hour of absence.

**ASSIGNED WORK:** If a student is absent the day an assignment (test and/or homework) is due; he/she is required to complete the work on the first day back in class.
CLASSROOM ETIQUETTE: An integral part of an education is developing a sense of integrity and responsibility not only toward ourselves but also toward others. In the classroom, as on the job or in your home, exhibiting appropriate behavior reflects on your maturity. Arriving on time to class, being prepared, and considerate of others as they are talking has a positive effect on others. Please be considerate.

STUDENT ID: 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.

DISABILITIES STATEMENT: 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)

RESOURCES (A-V, persons, tools/equipment):
- Architectural CAD Software
- Handouts

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

TENTATIVE OUTLINE

WEEK ONE-TWO
1. Introduction
2. Overview
3. Menus and Toolbars

WEEK THREE-FOUR
1. File Management
2. Defaults and Preferences
3. Walls, Railing
4. Rooms
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WEEK FIVE–SIX
1. Floors
2. Foundations
3. Building Foundations
4. Aligning Walls

WEEK SEVEN–EIGHT
1. Roofs
3. Roof Tools
4. Roof Types
5. Roof Returns

WEEK NINE–TEN
1. Manual Roofs
2. Dormers
3. Gable/Roof Line
4. Auto Rebuild of Floor and Ceilings
5. Roof Pitches
6. Skylights

WEEK ELEVEN–TWELVE
1. Framing
2. Bearing Lines
3. Joist Direction Lines

WEEK THIRTEEN–FOURTEEN
1. Electrical
2. Outlets
3. Lights
4. Auto Place Outlets
5. Electrical Tools

WEEK FIFTEEN
Review

OBJECTIVES OF COURSE: Upon completion of the course the student will have demonstrated the ability to:

1. Interpret basic single story dwellings
2. Develop construction drawings
3. Develop single family single-story structure
INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:
Classroom lectures
Demonstrations
Textbook assignments
Lab experiments

EVALUATE METHODS TO APPRAISE OBJECTIVES:
The following areas will be assessed:
   Board Drawing 30%
   CAD Drawings 30%
   Quizzes 30%
   Class Participation 10%

GRADING SCALE:
The following grading scale will be used:
93 - 100 = A
85 - 92 = B
77 - 84 = C
69 - 76 = D
BELOW 69 = F