Course Description
This is an introductory course in Engineering Graphic Science which includes beginning drawing techniques and development of skills to produce basic technical drawings. 4 Cr (3 lect/pres, 0 lab, 1 other)

Course Focus
Upon completion of the course a student will be able to draw basic technical drawings.

Text and References

Course Goals
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)
1. establish correct runouts
2. dimension machine tool drawings
3. prepare multiview drawings
4. select appropriate views
5. draw view enlargements
6. differentiate first-third projections
7. prepare formal drawings
8. describe auxiliary views
9. explain auxiliary views projection
10. create viewing-plane lines
11. draw primary auxiliary views
12. draw secondary auxiliary view
13. identify dimensioning system
14. apply standard dimensioning system
15. apply manufacturing notes
16. place proper general notes
17. interpret correct tolerancing
18. prepare industrial drawings
19. apply draft angles
20. prepare casting drawings
21. prepare forging drawings
22. provide surface finish symbols
23. solve tolerance problems
24. describe ISO 9000 quality standard
25. draw screw threads
26. use thread notes
27. interpret fastner specification
28. draw fastening devices
29. draw spring representation
30. prepare industrial layouts
31. draw cutting plane line representation
32. draw sectional views
33. identify non-sectioned features
34. draw conventional revolutions
35. make sectional drawings
36. label datum features
37. establish basic dimensions
38. place feature control frames
39. determine feature virtual condition
40. use geometric tolerancing
41. solve engineering problems
42. draw three dimensional objects
43. construct pictorial representations
44. apply shading techniques
45. determine grade slope
46. calculate grade percent

**Student Contributions**

Each student will spend approximately 3.5-5 hours per week preparing for class and completing assignments to turn in weekly. Each week students will turn in assignments as specified on Blackboard. In addition, chapter tests are to be completed as assigned. Students will also complete a final exam/project to demonstrate their knowledge of the material. Student Attendance Policy: See student handbook within the TCL Catalog.

Approved by:  _Kenneth Flick_  

Ken Flick, Division Dean for Business/Industrial Division
ADA Statement
The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

Academic Misconduct
There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship. It is the student’s responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification. The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the TCL Student Handbook, the Division Office, and the Learning Resources Center.

Attendance
The College’s statement of policy indicates that students must attend ninety percent of total class hours or they will be in violation of the attendance policy.

- Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING. Reinstatement requires the signature of the division dean.
- Students taking an online/internet class must sign in and communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students not attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING. Reinstatement requires the signature of the division dean.
- In the event it becomes necessary for a student to withdraw from the course OR if a student stops attending class, it is the student's responsibility to initiate and complete the necessary paperwork. Withdrawing from class may have consequences associated with financial aid and time to completion.
- When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor MUST withdrawal the student with a grade of “W”, “WP”, or “WF” depending on the date the student exceeded the allowed absences and the student’s progress up to the last date of attendance
  Or
  Under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.
- Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.
- A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.
- A copy of TCL’s STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

Hazardous Weather
In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWWV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLH 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. Go to www.tcl.edu/textalert.asp

Emergency Text Message Alert
Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. Participants receive immediate notification of emergency events and weather cancelations via text messaging on their cell phones. Participants can also opt in to receive non-emergency news and announcements. Go to www.tcl.edu. On the homepage, click on “emergency Text Alert at TCL” and fill out the form or go to www.tcl.edu/textalert.asp
**Course Evaluation:**
The grading scale is as follows:
Assignments and class work = 50%, Midterm Exam = 25%, and Final Exam = 25%.

90 - 100 = A  
80 - 89  = B  
70 - 79  = C  
60 - 69 = D  
Below 60 = F

**Course Schedule**
The class meets for 2.5 lecture/presentation hours per week. Course content will be taught in the order that the content goals are presented in the syllabus.