ETDG 1143 Introduction to Design Drafting – Syllabus – Fall 2016
Section: 04

Course Description:
Students learn basic use and application of AutoCAD as a drafting tool through the creation of geometrical shapes, parts, drawings, and electrical symbols and schematics. Students also gain a basic understanding of the fields of civil, mechanical, and architectural design and drafting.

General Information:
Type of course: Theory / Lab
Credit Hours: 3
Total clock hours of theory per semester: 50
Total clock hours of lab for the semester: 25

Additional lab work outside of class may be required.
Class length: Full Semester
Class format: Face to Face / Online
Class days and times: M,W,F: 1:00pm – 2:25pm.
Prerequisites: Math 0163 or Pass Compass Test

Instructor Information:
Instructor Name: Chris Burris
Instructor Phone: (918) 293-4975
Instructor email: chris.burris@okstate.edu
Contact: My preferred method of contact is via email. Please allow 24-48 hours to return your correspondence during the normal work week.
Office: Reynolds Bldg. Room #108 and Classroom 151
Instructor’s Office Hours: T,TH: 3:30pm-4:30pm (In office or classroom)
Division Name: School of Engineering
Division’s Main Phone: 918-293-5150
Required Text, References, and Materials:
Software: Autodesk Autocad - Free to students.
Materials: Paper or notebooks, writing utensils, USB Flash Drive 1GB or larger - $15.
Estimated Total Costs: $90

Course Learning Assessment:
Upon completion of this course students will be able to do the following:

Course Outcomes:
1. Use CAD and Specialty CAD software to create complex drawings that fulfill industry standards.
2. Apply mathematical techniques to solve problems in Physical Science and Engineering.
3. Perform quantity estimates and calculations as they pertain to Design Drafting.
4. Determine the proper scale, dimension style fit and text size for a drawing that is printed to scale.
5. Recognize redundant design processes and apply creative solutions to increase productivity.

Course Objectives:
1. Utilize Computer Aided Drafting software.
2. Create drawings using orthographic projection.
3. Create drawings using geometric construction.
4. Research information from previous drawings, manuals or vendor catalogs as needed for current project.
5. Create dimensions using ANSI standards and industry norms.
6. Create drawings using orthographic projection to determine overall dimensions.
7. Create typical and complex section view drawings.
8. Utilize Microsoft Office for documentation, presentations and calculations.

Aspects of the course objective assessments may be used in the university’s assessment of student learning.

Course Activities:
In this course students may be required to:
- Participate in class discussions and activities.
- View videos that depict the various concepts.
- Contribute to a course Service Learning project.
- Participate in group and individual presentations.
- Compile a portfolio of work produced.
- Take examinations and/or quizzes.
- Complete reading assignments.
- Complete work demonstrating abilities, methods, and processes.
Evaluation:
Grades will be based on the quality and completion of these areas:

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<thead>
<tr>
<th>Area</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>40%</td>
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<td>Performance Tests</td>
<td>30%</td>
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<td>Final Project</td>
<td>20%</td>
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<td>Portfolio</td>
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<td><strong>Total</strong></td>
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Grading Scale:

- **A**: 100% - 90%
- **B**: 89% - 80%
- **C**: 79% - 70%
- **D**: 69% - 60%
- **F**: 59% - 0%

The student’s grade for assignments will be used in the university’s assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student’s course grade.

Daily and/or weekly quizzes, small weekly assignments, and similar type projects: Normal return time to student is about one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams, and similar type projects: Normal return time to students in about one (1) to two (2) weeks.

Authorized Tools:

Students are required to bring their own personal USB Flash Drive for saving files and drawings on. 1GB or larger recommended.

Students may use any/all course materials, including books and notes, while participating in classroom activities.

Late Work:

All assignments and Tests will have specific due dates and are expected to be completed and turned in before class time on that date. Students will be given ample time to complete all tasks before they are due. No late assignments or test will be accepted, any work turned in after it’s designated due date WILL NOT be graded and result in a zero. There will be NO MAKEUP WORK offered for this course.

Testing:

All quizzes and tests are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty. All exams must be taken on the date of the exam; there are NO MAKEUP EXAMS offered for this course.
University & Course Expectations:
It is the responsibility of each OSUIT student to read, abide by and maintain a copy of the syllabus for this course. Syllabi are available on the OSUIT website.

Students understand that excerpts or portions of their work may be utilized for institutional assessment purposes. The purpose of institutional assessment is for verification of student learning and program improvement. Every effort will be made to keep this information confidential.

Americans With Disabilities Act (ADA):
According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Academic Accommodations/LASSO Center. Please advise the instructor of your disability as soon as possible, and contact The LASSO Center, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. The LASSO Center is located on the 3rd floor of the Noble Center. You may call 918.293.4855 for more information or fax documentation to 918.293.4853.

Academic Dishonesty:
Academic dishonesty or misconduct is neither condoned nor tolerated at OSUIT. Any student found guilty of academic dishonesty or misconduct shall be subject to disciplinary action. Academic dishonesty and/or misconduct includes, but is not limited to, the following actions: (1) Plagiarism: the representation of previously written, published, or creative work as one’s own; (2) Unauthorized collaboration on projects; (3) Cheating on examinations; (4) Unauthorized advance access to exams; (5) Fraudulent alteration of academic materials; (6) Knowing cooperation with another person in an academically dishonest undertaking. Students are required to actively protect their work against misuse by others. For details, refer to The OSUIT Student Handbook (Student Rights and Responsibilities Governing Student Behavior) available online at http://www.osuit.edu/academics/forms/student_rights_responsibility.pdf.
Attendsance Policy:

A primary component of OSUIT's Mission is “to prepare and sustain a diverse student body as competitive members of a world-class workforce.” Regular and consistent attendance not only aids in academic success, dependable attendance is a requirement in today's real-world employment; therefore, regular and consistent attendance is a requirement in all OSUIT courses.

Definitions:

Absent: Failing to attend all or a significant portion of a class or lab session or failing to actively participate in online coursework during a standard week timeframe for a given course.

A. Students may not be marked as absent if missing class for situations such as, but not limited to:

1. participating in a required university activity such as a field trip;
2. fulfilling a military obligation;
3. a mandatory court appearance;
4. death in the immediate family;
5. extreme illness or accident to oneself or immediate family. Instructors, at their discretion, may require proof of such events, and if any assignments or test need to be rescheduled.

B. It is the responsibility of the student to contact and inform the instructor and/or department in advance of such excused absences whenever possible.

C. Students must also demonstrate attendance through active participation in the course at least once every seven days. Simply logging into the course does not constitute active participation.

D. Active participation is defined as the completion of required activities such as:

1. Completion of online quizzes or exams
2. Submission of assignments
3. Participation threaded discussions, or
4. Involvement in discussion question as determined by the instructor and indicated in the course syllabus.

Tardy: Arriving late to class as defined by the individual class instructor. Faculty, at their discretion, may equate three tardies to equal one absence.
E. Calculations for weekly to percentage ratios:

1. Missing 1 of 15 weeks = 6.67%
2. Missing 2 of 15 weeks = 13.33%
3. Missing 3 of 15 weeks = 20%
4. Missing 1 of 7.5 weeks = 13.33%
5. Missing 1.5 of 7.5 weeks = 20%

Procedures:

Early Intervention

A. Any student, who misses 10% of an individual course (or earlier at faculty discretion) during a regular fifteen week semester, or the equivalent portion of time in a shorter session, will have their name submitted by that course instructor to the OSUIT Early Alert System for retention intervention.

B. At the point the Early Alert is issued, the student must meet with their assigned faculty advisor or designated faculty/staff member within seven (7) academic calendar days for counseling on how to improve their attendance and academic success.

Excessive Absences

A. The university reserves the right to administratively withdraw any student from an individual course who misses 20% of that course, whether excused or unexcused, and, in the opinion of the instructor, the student does not have a reasonable opportunity to be successful in the course.

B. Students should be aware any of the following may impact their financial aid:

1. being administratively withdrawn from a course
2. dropping a course
3. their last date of attendance in a course

Please see OSUIT Policy 2-021 for full details and procedures.
**Modules:**
The course content for this course is organized into individual modules. Modules can be thought of as a lesson unit, or a series of related topics, which will be covered in class. Each course module handout provides a list of the learning objectives, instructions and specifications for assignments and key terms. Assignments are in general due at the completion of a module. Note that modules are organized by content and not by week. Therefore some weeks will have more than one module and some modules may take longer than a week to complete.

**Presentations:**
This course may require that students give one or more formal presentations to the class. On a presentation day, students are expected to be punctual, professional, and have all components of the assigned project with them, ready for presentation. All students will be required to critique each presentation giving constructive positive and negative feedback. All students are asked to be respectful and tactful while reviewing others’ works, and receptive to criticisms of their own work.

**Lab Time:**
During lab time the students will be allowed to work on course assignments and or projects, during the class period, and the instructor will review their work and provide feedback. These are compulsory classes, as failing to attend (and thereby failing to receive feedback) will inevitably result in lower grades on work due to inadequate guidance by the instructor.

**Student Email:**
All students have access to a school email account and the online learning management site. If a student has a question that pertains to a specific course, students are encouraged to send email with the course number, section number, course name, and class time in the Subject line of the email. Your instructors will only use your school email address to contact students. Students should check the school email account frequently. Some email accounts can be forwarded to other accounts if you have difficulty checking multiple accounts.

**Online Learning Management Site (Brightspace):**
All course materials will be provided through online access at: https://online.okstate.edu/
Students will have access to course materials, including modules, Power Point lectures, quizzes, assignments and resources. Students will also be required to submit all work through this online system, unless otherwise noted.

**Student Progress:**
Students can keep track of their grades and due dates using the online learning management site grade book and calendar features. Students who are averaging below a 70% after the 8th week should speak with the instructor.
Use of Copyrighted Materials:
Students are prohibited from using any copyrighted drawings, images, audio, footage and characters for the creation of their work. (i.e. Celebrity photos, movie screen grabs, drawings of copy righted logos, characters, etc. and so forth). Students must use their own content for all assignments.

All Viewing Audiences:
All materials produced for this course must be appropriate for viewing audiences of all ages. Assignments MUST NOT contain any offensive language, graphic content, and suggestive themes (ex. sex, drugs and alcohol). Your instructor must first approve any content you are unsure of; chances are if you are unsure then it is not appropriate content. Any assignments turned in which breaks this rule WILL NOT be graded.

Key Terms:
Key Terms are Notes, Key Words, and Terminology about a specific subject. The Key Terms come from the test and are provided to you as a study guide. Do NOT simply write the definitions of Key Terms. Take the time to take Notes about, Research, Explore, and USE each Key Term. By completing the Key Terms you will have better scores on the tests.

Assignments File Name:
Unless otherwise noted in the module, all assignment file names should begin with the student's last name followed by an underscore and the lesson prefix, then the file extension. If the student’s name is Stu Dent and his assignment is Module 01 A, and he is to turn in a MS word file, then the file name should be as follows: Dent_Mod01A.doc

Assignment files, which are NOT named in the following format, run the risk of not being graded. Ensure that you have correctly named your assignment before turning it in.

Professionalism:
Professional behavior is essential for successful student and effective learning environment. Therefore professional behavior is expected of all students. Students in this course are required to conduct themselves professionally in class. This includes the following behaviors, but are not limited to:

Appearance: A professional appearance includes professional attire, excellent personal hygiene, civility and poise, all qualities, which are quickly noticed by employers. Dressing for success means dressing the part of a successful professional, therefore we encourage students to wear business casual attire to class. Students are required to wear business attire at all formal events and presentations.

Collaboration: Collaborates with team members, adapts readily to different positions on the team; shows respect for all team members; remaining flexible and open to change; communicating with others to resolve problems.
Communications: Speaking clearly; writing legibly; listening actively; adjusting communication strategies to various situations.

Ethical Conduct: Submitting work of the student’s own original creation; paraphrasing and citing all references; no lying, cheating, or plagiarism.

Integrity: Consistent honesty; prompt admission and correction of mistakes; trustworthy with the property of others and confidential information; value accuracy and thoroughness; avoids derogatory or demanding remarks.

Participation: Actively participates in class; volunteers for activities; asks questions and summarizes lesson content.

Preparedness: Bringing all required course materials (such as: text books, pencil, paper, flash drive) to each class period.

Respect: Being polite to others; not using derogatory or demeaning terms; appreciates the value of diversity; demonstrates clear, appropriate and cultural boundaries; behaving in a manner that brings credit to the profession.

Self – Confidence: Demonstrating the ability to trust personal judgment; demonstrating an awareness of strengths and limitations; exercises good personal judgment.

Self – Motivation: Taking initiative to complete assignments; taking initiative to improve and/or correct behavior; taking on and following through on tasks without constant supervision; showing enthusiasm for learning and improvement; consistently striving for excellence in all aspects of design and professional activities; accepting constructive feedback in a positive manner; taking advantage of learning opportunities.

Time Management: Consistent in completing tasks and assignments on time; utilizing class time to the fullest.

Classroom Policies:
All classroom policies are in place to ensure a safe and productive learning environment. Violating any classroom policies may result in but not limited to, verbal reprimand in class, written reprimand with a copy placed in your records, expulsion from the classroom for the class period and possible expulsion from the course or school. These policies include, but are not limited to the following:

- A positive learning environment will be maintained at all times.
- Students are to behave professionally in the classroom, no feet on desk, no foul language, etc. Any unprofessional behavior will not be tolerated.
• Students are to maintain time-on-task. The way you spend your time is vital to your success in the program.

• No food or drink is allowed in the classroom. These items can easily damage expensive computers and electronic equipment.

• Use of personal electronic devices is not allowed in the classroom. Personal electronic devices include, but are not limited to; radios, TVs, tape players, CD players, MP3 players, handheld games, pagers, cellular phones, laptops etc.. All cell phones are to be turned off or set to vibrate before entering the classroom.

• Students may NOT surf the net, check e-mail or engage in similar activities during class time. Not only does it affect the person doing it, but also it is a potential distraction to others in the class.

• The School of Engineering computers and equipment are for educational use only and not personal use. Computers and equipment may only be used for school work for other classes or programs with the permission of all related instructors.

• No outside software installations will be allowed in the classroom. No games will be played on any classroom computer at any time.

• No printing during class lectures. No working on or printing of non-class related materials in the classroom.

• Avoid touching or pressing on the LCD monitors and forcefully striking the keys on the keyboards, or buttons on the mice. Be sure to shut down computer at the end of each class period.

• Downloading, uploading, streaming, sharing (peer to peer) of files not related to the class is strictly prohibited.

• Accessing or possession of illicit, offensive, obscene, or illegal materials/files is strictly prohibited and will result in disciplinary action up to and including suspension, expulsion, and/or legal action.

Additional OSUIT Campus Student Policies and Procedures can be found at:

• http://go.osuit.edu/student/residential_life/student_quick_reference

• http://go.osuit.edu/student/residential_life/sites/go.osuit.edu.student.residential_life/files/u73/rights_responsibilities.pdf

• http://go.osuit.edu/administration/policies_procedures/information_technologies
## Course Outline/Schedule:

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<tr>
<th>WEEK:</th>
<th>MODULE:</th>
<th>TITLE:</th>
<th>CHPTR #:</th>
<th>DATE DUE:</th>
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<tbody>
<tr>
<td>1</td>
<td>00</td>
<td>Syllabus</td>
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<tr>
<td>1-2</td>
<td>01</td>
<td>Using the Interface/Coordinate System</td>
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<td>2</td>
<td>02</td>
<td>Basic construction commands</td>
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<td>3</td>
<td>03</td>
<td>Layers, Properties, Grips</td>
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<td>04</td>
<td>Print Reading, Drafting Standards</td>
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<td>4</td>
<td>05</td>
<td>Editing, Modifying</td>
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<td>06</td>
<td>Text Titleblocks, Prints</td>
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<td>5</td>
<td>07</td>
<td>Geometric Shapes &amp; Construction</td>
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<td>Orthographic Projection</td>
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<td>Multi-lines, Splines</td>
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<td>Plotting &amp; Layouts</td>
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<td>7</td>
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<td>Drawing Info &amp; Utilities</td>
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<td>12</td>
<td>Dimensioning &amp; Tolerances</td>
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<td>Parametric Drawings</td>
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<td>Auxiliary Views</td>
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<td>9</td>
<td>15</td>
<td>Sectioning / Hatching</td>
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<td>16</td>
<td>Blocks, Xrefs, Attributes</td>
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<td>11</td>
<td>17</td>
<td>Basic 3D</td>
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<td>18</td>
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<td><strong>FINAL PROJECT</strong></td>
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*NOTE: This is a tentative schedule and may be subject to change.*

## Syllabus Disclaimer:

As with most technology courses this course is in a state of constant update in order to keep up with the ever changing technology and advancements in the field. This syllabus is not a contract, but a plan for action. The instructor reserves the right to alter its stipulations, upon prior notification to students, if and when educational and technological circumstances warrant changes.