Nashville State Community College
Business, Applied Arts & Technologies Division
Computer Aided Drafting & Design

Master Course Syllabus

CAD 1700 INTRO TO DIGITAL ANIMATION
4 Credits
4 Class Hours

This is an introductory class that includes the concepts and theory of digital animations as well as the aesthetics of digital design needed for a student to create 2D & 3D Designs and Animations. This class uses a "hands on" approach and will explore the many fields of designing and presenting ideas with 3D Software. Emphasis is placed on creating 3D Designs as well as presenting them with lighting, surface materials, and rendering them for various disciplines. This class will cover the broad spectrum of techniques used to create the electronic media used in product design & marketing, video games, graphics for web, film and broadcast video. Examples and techniques used in commercial applications as well as comparisons to traditional animation techniques are integrated into the studies giving the student the skills required to advance in this field.

Instructor Information:
Name:
Email:
Office Phone:
Office Location:
Office Hours:

Textbook and Other Materials:
Textbook: N/A
Reference Materials: N/A
Supplies: Students are required to have and use a USB storage device i.e. USB Flash drive.

Course Outcomes:
Upon successful completion of this course, the student will be able to:

1. Identify the components of the 3D software.
2. Identify, use, and create graphics files of several varieties including raster, vector, and 3D Design files.
3. Create, Animate, Light, Apply textures and present 3D projects.
4. Open and edit previously created 3D Projects.
5. Have a thorough understanding of all the aspects and techniques of 3D Design projects.
Course Competencies:

1. A basic level of computer literacy of the Windows environment is expected. The student should know how to open files, save files and follow a path to a file either on a hard disk or on a removable storage device.

Course Assessments:
The following performance assessments will be used to demonstrate students’ understanding, knowledge and skills:

1. Students will be assessed on their ability to perform “hands on” exercises evaluated on accuracy, clarity, and techniques learned in this course.
2. Students will be assessed on their retention of learned materials through written or “hands on” projects for testing.

Grading Policy

If you cannot take a test when scheduled, you must notify the instructor and make arrangements to take the test prior to the scheduled date. Homework not turned in on time is subject to a 25% grade reduction. Homework will not be accepted if more than one week late or after an assignment has been returned to the class, whichever comes sooner. Homework should reflect your understanding of the subject, not that of your classmates. There will be no makeup on missed labs. Make every effort to attend every lab.

Grading Scale:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>3-4 Tests</td>
<td>30%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Lab</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>
### Topics to Be Covered:

**COURSE OUTLINE:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Lab exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction- Basic 3D Concepts and Techniques Intro to Software, Basic Interface</td>
<td>Hands on introduction.</td>
</tr>
<tr>
<td>2</td>
<td>Project Setup, Interface Continued, 3D Primitives &amp; Manipulation</td>
<td>Hands on practice</td>
</tr>
<tr>
<td>3</td>
<td>Vector Line Objects and their application, Additional Interface features</td>
<td>Lab Exercises: Vector Lines, Bezier Lines</td>
</tr>
<tr>
<td>4</td>
<td>3D from Vector/Line objects</td>
<td>Lab Exercises: Extrude, Revolve, Loft, Deformations</td>
</tr>
<tr>
<td>5</td>
<td>3D Geometry, Modifiers</td>
<td>Lab Exercises: Editable Meshes</td>
</tr>
<tr>
<td>6</td>
<td>Additional 3D, Geometry Modifiers</td>
<td>Lab Exercises: Overview of geometry modifiers</td>
</tr>
<tr>
<td>7</td>
<td>Review MID- TERM EXAM</td>
<td>Make-up time</td>
</tr>
<tr>
<td>8</td>
<td>Animation</td>
<td>Lab Exercises: Keyframes, Graphical Editor, Controlling objects in motion</td>
</tr>
<tr>
<td>9</td>
<td>Specialized animations</td>
<td>Lab Exercises: Walkthrough’s, Motion Controllers</td>
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<tr>
<td>10</td>
<td>Materials 1</td>
<td>Lab Exercises: Basics</td>
</tr>
<tr>
<td>11</td>
<td>Materials 2</td>
<td>Lab Exercises: Special Effects</td>
</tr>
<tr>
<td>12</td>
<td>Final Project</td>
<td>Lab Exercises: Final Project</td>
</tr>
<tr>
<td>13</td>
<td>Discipline Specific Applications</td>
<td>Final Project (To be chosen by student in his/her discipline, and approved by instructor)</td>
</tr>
<tr>
<td>14</td>
<td>Discipline Specific Applications</td>
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<tr>
<td></td>
<td>FINAL EXAM</td>
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</table>
Attendance Policy
A student is expected to attend all scheduled classes and laboratories. Each instructor will formulate an attendance policy and provide it on the course syllabus. Absences are counted from the first scheduled meeting of the class, and it is the responsibility of each student to know the attendance policy of each instructor in whose class he/she is enrolled. If a student is absent from a class, he/she should give an advanced explanation to the instructor. Absences in a course may affect a student’s final grade. The student is responsible for all assigned work in the course regardless of excused or unexcused absences. Tardiness may also affect a student’s final grade.
Failure to attend class will result in a final course grade of “FA” or “FN” (see explanation below) depending on the individual instructor’s course policy.
FA= failure, attendance-related (unofficial withdrawal) Last recorded date of attendance required.
FN= failure, never attended class (unofficial withdrawal)

Student Communication Channels
It is the student’s responsibility to check D2L and MyNSCC email on a regular basis. These are the official communication channels between the college and students. Students are responsible for the information communicated through those channels. D2L contains specific course information and MyNSCC contains information important for other purposes.

Early Warning System
Nashville State Community College has implemented an Early Warning System to notify students via e-mail about academic problems such as poor classroom attendance, poor performance on assignments/tests, poor communication skills, late/missing assignments, and/or lack of classroom participation. Please note that Early Warning Alerts do not affect a student’s academic standing.

ADA Compliance Statement
Nashville State complies with the Americans with Disabilities Act. If you wish to request any special accommodations for any courses in which you are enrolled, contact the Student Disabilities Office at 353.3721.

Classroom Misconduct
Nashville State Community College has a zero tolerance policy for disruptive conduct in the classroom. Students whose behavior disrupts the classroom will be subject to disciplinary sanctions. Please consult your Student Handbook for more specific details.
The instructor has primary responsibility for control over classroom behavior and maintenance of academic integrity. He/she can order temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or in conduct which violates the general rules and regulations of the College.
Disruptive behavior in the classroom may be defined as, but is not limited to, behavior that obstructs or disrupts the learning environment (e.g., offensive language, harassment of students and professors, repeated outbursts from a student which disrupt the flow of instruction or prevent concentration on the subject taught, failure to cooperate in maintaining classroom decorum, etc.), the continued use of any electronic or other noise or light emitting device which
disturbs others (e.g., disturbing noises from beepers, cell phones, palm pilots, lap-top computers, games, etc.).

Please be aware that children are not allowed in class or unattended on campus.

**Academic Dishonesty (Honor Code)**

Any form of academic dishonesty, cheating, plagiarizing, or other academic misconduct is prohibited. "Plagiarism may result from: (1) failing to cite quotations and borrowed ideas, (2) failing to enclose borrowed language in quotation marks, and (3) failing to put summaries and paraphrases in your own words (A Writer's Reference 331). Academic dishonesty may be defined as, but is not limited to, intentionally trying to deceive by claiming credit for the work of another person, using information from a web page or source without citing the reference, fraudulently using someone else's work on an exam, paper, or assignment, recycling your own work from another course, purchasing papers or materials from another source and presenting them as your own, attempting to obtain exams/materials/assignments in advance of the date of administration by the instructor, impersonating someone else in a testing situation, providing confidential test information to someone else, submitting the same assignment in two different classes without requesting both instructor's permission, allowing someone else to copy or use your work, using someone else's work to complete your own, altering documents, transcripts or grades, and forging a faculty/staff member's signature.

In addition to other possible disciplinary sanctions that may be imposed through regular college procedures as a result of academic dishonesty the instructor has the authority to assign an “F” or a “Zero” for the exercise, paper, or examination or to assign an “F” for the course. Students may appeal through the appropriate college grade appeal procedures.

**Inclement Weather Policy**

In the event of an inclement weather event, check the Nashville State web site home page at www.nscc.edu for announcements on campus closures. Campus closures will also be announced on local television stations (channels 2, 4, 5, and 17).

When classes are cancelled, an online assignment will be posted in NS Online. Check your NS Online email for a message from your instructor regarding your online assignment requirements.

Even though classes may be cancelled, some areas, i.e. Testing Center, may be open. However, you should check before commuting to campus.

The Vice President for Academic Affairs and the Director of Security are responsible for cancellation decisions during an inclement weather event for the Nashville State main campus and the Southeast campus. Cookeville, Waverly, and Dickson Campus Directors will make class cancellation decisions based on conditions in their respective areas. Decisions about class cancellations are based on actual conditions, not forecasts. The perspective used for making decisions is that of the college as an employer, not as a K-12 institution. Students should use their own best judgment in determining whether to report to campus during inclement weather when classes are not cancelled.

**NOTE:** This syllabus is meant simply as a guide and overview of the course. Some items are subject to change or may be revised at the instructor’s discretion. Each instructor will further clarify their criteria for grading, classroom procedures, attendance, exams and dates, etc. on his/her course syllabus.