dial
Learning Communities
Virtual School

Visual Communications (3D Modeling)
Course Syllabus

Instructor Information

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Prerequisite for this course

You will be required to complete the 'Orientation assignment' before you will start this course. Within the Orientation assignment, you will view videos on how to navigate around the course. (If you have taken an online course before, you will not need to do this Orientation).

Course Description

This 3D modeling course introduces the high-tech world of 3D modeling to students. It enables students to learn cutting-edge technology skills and professional-level software tools. It provides a foundation in critical technology and design skills.

Students who love to draw and create can now create even more with the use of the SketchUp Pro software. Students will be able to learn 3D modeling using powerful, yet easy to learn, modeling tools. SketchUp Pro is a professional-level, 3D modeling software. SketchUp Pro is powerful enough for use with Architecture and Engineering, yet easy enough for even elementary students to use. Students will use it to design their own 3D models.

This course takes you step-by-step through how to use SketchUp to create several models of items such as keychains, ornaments, vases, buildings, etc. This course will focus on how 3D modeling is used in design.

Course Outcomes—students in this course will:

- Describe the techniques and tools used in the SketchUp Pro program.
- Define and utilize various tools and techniques involved in 3D modeling.
- Identify the processes and techniques involved in 3d modeling/printing.
- Use the SketchUp interface, tools and navigation, modeling techniques.

- Explore 3d modeling applications in order to learn how to be active producers and designers of customizable 'things' rather than just passive modelers of previously designed objects.
- Apply and recognize the use of higher order thinking skills (e.g. complex thinking, finding structure in apparent disorder, critical evaluation of one's own work) in the creation of multiple solutions to 3d modeling problems.
- Identify and discuss the role of 3d modeling/printing in education for careers in 3D design.
- Create 3d (printable) models using a variety of techniques and processes, demonstrating knowledge and correct techniques.

Textbooks and Instructional Materials

- This course will be taught entirely online.
- <u>I do not have a textbook for this class, but I will have many handouts, videos, and instructions, etc within each module for a particular assignment to help you understand the material.</u>
- You will have the SketchUp Pro software available for you to use for this course. Your facilitator or on-site tech coordinator should be able to help you with the installation of the software.
- The SketchUp Pro software is available to SD schools free of charge.
- Video tutorials will be available throughout the course.
- If you have a personal question (such as your grade or if you plan on being absent), please use the Blackboard Learn "messages" OR the state email to get in touch with me. My email is also listed above.
- Also, even though this course is online, you will want to get to know each other as well as your instructor just as you would in a traditional class environment. That means you will want to have frequent contact via the discussion board with your classmates and instructor. This will help you to feel like you are in a regular classroom.

Class Policies and Procedures

Attendance & Class Time:
- The field of 3D modeling/printing is a very new and exciting field. There's so much you can do with it, but it can also be very challenging and time consuming. I have tried to make it easier for you by providing you with step-by-step instructions, videos, etc. The main thing is "Don't give up when you get stuck!" Persistence pays off!
- It is important for you to work on this class during the assigned time since you can easily fall behind. It is very easy to fall behind and very difficult to catch up once you're behind. You don't want to let yourself fall behind especially since you have deadlines.
- In this on-line course, we will learn by doing. We will be communicating by Blackboard Learn 9.1. For a complete list of assignments, click on the (Assignments tool) on the Homepage.
- We will be using the Blackboard Learn email and discussion boards to ask or answer questions and to hold discussions.
- Also, I will send a list of the assignments along with the due dates to your teachers. You will want to print that out so you know when your assignments are due, etc.

- If you happen to notice that a website for one of your assignments won't open up, please contact me immediately.
- If you have a valid reason for not having an assignment done on time then please let me know. I will possibly check with your facilitator and/or principal if I need to check the validity of the excuse. Otherwise, late assignments will be docked. I will be lenient at the beginning of the course when everyone is getting used to the course and also during the winter months when schools are not in session, etc due to snow days.

Deadlines:

- **Unexcused late work will have points deducted. Unexcused work not turned in by two weeks after the due date will receive 10 points off the given grade. Unexcused work which is not turned in by four weeks after the due date will receive 20 points off the given grade. Work from the 1st Quarter which is submitted the 2nd Quarter will only receive half credit.**
- Meeting the assignment and discussion deadlines in your course is vital to earning a good grade. (see DIAL's Student Policy). You will want to make sure that you stay caught up and don't get behind.

Evaluation

- At the end of each **project** assignment, you will notice a rubric. You may want to take a look at the rubric <u>before</u> you begin the assignment so you know what the expectations are for grading.
- Always make sure you have everything submitted for each assignment.