



Team Project 1: Visual Communication

Design and **create** a visual model or artifact (up to 4 points)

HORT 201 - Horticulture Science and Practices

David Wm. Reed - Instructor

Course Web Site: hort201.tamu.edu

Satisfying the Student Learning Outcomes for Life and Physical Sciences

Visual Communication and Teamwork

Optional Bonus Points:

All projects are optional and for bonus points (added to sum of exams that contribute to your grade).

You cannot be penalized for choosing to not participate in the projects.

Each student can participate and complete any or all three Projects.

Teams

The class will be divided randomly into teams of 5-6 members. The team members must work together to complete the Visual Communication model/artifact.. Team members will be graded on participation.

Team member will anonymously score each other: >50% to full effort receives all points awarded to the project, >0 and <50% effort receives half points, and no participation receives no points.

Change Teams

- A team member can only change teams with approval of the instructor.
- A valid reason must be presented to change teams, such as some type of critical conflict, or only one person in the group wants to participate. There cannot be one member teams.
- Team members can only change groups up to the date of Exam 2. Past this deadline you can only change teams if you can find a team that has yet to a start, they agree to accept you into their team and I approve the change.

Pre-Review/Critique/Rewrite and chance for correction/revision/rewrite

Teams or individuals can submit a draft of the artifact, model, video or essay to the instructor to review and critique, then the team or person can prepare the final draft or model for submission. Only one critique can be sought.

Team Project 1: Complete either Option 1 or Option 2, but not both

Option 1: Convert a 2-dimensional diagram into a 3-dimensional model or artifact of an anatomical structure.

The plant anatomy and morphology lectures are based entirely on 2-dimensional drawings (pages 1-20). To demonstrate one's ability to visualize the structure in 3-dimension, the team will select any of the 2-dimensional diagrams in the text, then design and create a 3-dimensional model or artifact. The model or artifact will be scored for 3D, scientific accuracy, clarity of representation and professionalism. Team members will be graded on participation. Integrate the names of team members involved in the project directly on the artifact or submit a separate document. Names also can be entered into Canvas at the time of submission.

Submission: On behalf of the entire team, only one team member submits pics of the 3-D model to Canvas. Submit pictures of the 3-D model from several angles to show all parts in all dimensions. Pics must show all the labels clearly readable. When submitted to Canvas, list the names of the team members that were involved in the project. If you have difficulty or

complications submitting to Canvas, you can bring directly to me the model or a USB stick that includes the pics. DO NOT submit the file to Google docs.

Grading Rubric

The 3D model will be scored for 3D, complete clear and professional labelling, scientific accuracy, and basically is it a reasonable representation of the actual plant part. The model can be constructed of any suitable material (paper, clay, wood, boxes, metal, styrofoam, food, containers, I even had one constructed from a half-ton round bale of hay).

The Rubric scale will be:

- 4 points – first and foremost the 3D model truly is a 3D representation of the structure, e.g., it reveals the dimensions of width, length and height (the 2-D diagrams in the book have only width and length); all parts included and properly and clearly labelled; scientifically accurate; it is a clear and reasonable representation; and appears professional and would be acceptable for a presentation.
- 2 points – the model is not 3D, some parts not present or inaccurately represented, some parts not labelled or labels not professional looking.
- 0 points – a model is not submitted, or if it is deficient in 3 or more of the above rubric grading characteristics.

Option 2: Convert Narrative information into a visual artifact that fits a visual learning style.

The team will select any topic from throughout the text that is presented as narrative and create a visual method of presentation. The artifact could be a comparison and contrast matrix (example p. 18, 29), a diagram or one PowerPoint image/slide (example page 34, 62), a virtual model, a drawing, labelled visual image, etc. The team could take a visual diagram or drawing in the text and present it in an original and uniquely different presentation. If you use PowerPoint to create the visual artifact, DO NOT submit a Power Point presentation, only one PowerPoint slide. Integrate the names of team members involved in the project directly on the artifact, pic of names on a separate document, or list names in Canvas upon submission.

Submission: On behalf of the entire team, only one team member submits to Canvas a single electronic file of the drawing, diagram, graph, pic, virtual image, PDF, single PowerPoint image/slide, or comparison and contrast matrix. The artifact must be in a file format that can be read on a standard computer with standard software. When submitted to Canvas, list the names of the team members that were involved in the project. If you have difficulty or complications submitting to Canvas, you can bring directly to me a USB stick that includes the file(s). DO NOT submit the file to Google docs.

Grading Rubric

The artifact will be scored for learning style indicated, accurate and complete labelling, scientific accuracy, and basically is it a reasonable representation of the narrative description.

The Rubric scale will be:

- 4 points – first and foremost the narrative in the text is presented as an artifact that fits the visual learning style. The artifact has all parts properly and clearly labelled; is scientifically accurate; it is a clear representation; and appears professional and would be acceptable for a presentation.
- 2 points - must be a single standalone artifact, such as a single drawing, matrix or PowerPoint slide and not multiple pages or multiple slides; some parts not present or inaccurately represented, some parts not labelled or labels not professional looking.
- 0 points – an artifact is not submitted, or if it is deficient in at least 3 of the above rubric grading characteristics.