

Syllabus

Course Title: Tech 2 (Foundations of Technology, Continued)

Course Schedule: January 23 – June 6, 2007 (A Days)

**Reference
Materials:**

Hutchinson, J. & Karsnitz, J.R. (1994). *Design and problem solving in technology*. Albany: Delmar Publishers, Inc.

Wright, R.T. (2004). *Technology*. Tinley Park, ILL: Goodheart-Wilcox Company, Inc.

**Electronic
Resources:**

<http://www.usoe/k12.ut.us/ate>
<http://www.geocities.com/forsolrac>
<http://www.nanotechnology.com/>

Instructor's Name: Jolette Bush

Instructor's Email: innovatinggeeks@gmail.com

Alternate Email: Jolette.bush@jordan.k12.ut.us

Tech Group URL: <http://groups.google.com/group/innovatinggeeks>

Availability: Mon., Wed., Fri, 7:00 – 7:45 AM
Mon-Fri, 2:25 – 3:00 PM
MSN IM: pneumaticcranium@hotmail.com

Welcome: Welcome to class. For most of you, this will be the first time you've had a syllabus for a class. A syllabus outlines the format of the class, assignments and grading rubrics, deadlines, and schedule. For this class, you will be required to develop a digital portfolio in the form of website. You may use whatever provider you desire except MySpace.com. All of your assignments will be posted to your portfolio for credit.

Think of me as a facilitator, guiding you in your technological education and literacy. I expect you to come to class on time and prepared. I have high expectations for my students and I want each of you to excel at your strengths and improve upon your weaknesses. As such, you will be held accountable for meeting deadlines and submitting your best work.

Course Description: Tech 2 is an extension of Tech 1. You will be introduced to the various technologies used in video production, power and energy, information and communication, engineering design, technical writing, and critical thinking and problem solving.

This course is designed to provide a launching pad for students who are interested in pursuing a technical pathway or entering the Film Academy. It is a prerequisite for Tech 3 and Advanced Technology (post production).

Purpose and Approach:

The purpose of Tech 2 is to prepare students for further exploration of technological careers and classes, including the Film Academy. As all technology courses, this is a hands-on, team-oriented course wherein you will complete team assignments as well as individual assignments. You are encouraged to begin exploring educational pathways corresponding to your individual interests.

Participation:

Forty percent of your grades will be earned through attendance and participation in classroom activities, including weekly summaries (IC).

Weekly Implications

And Conclusions:

At the end of each week, you are required to develop a short paragraph describing what you have learned during the week and how it applies to your other course work and future careers. The paragraph will be posted to your website and the Tech Group URL. This statement may also include questions for me regarding material that may still be unclear.

Weekly Discussion

Questions:

Each week, you will respond to a discussion question (DQ) about the week's learning. These DQs must include the weekly vocabulary terms and be at least 150 words in length. You will post these responses to your website and the Tech Group URL.

Learning Team

Concepts:

Because teamwork is such a vital commodity in the work world, you will be required to work in teams and develop a team charter, indicating each of your strengths, weaknesses, and goals. The team charter will be emailed to me at the beginning of each new unit and posted to the Tech Group URL.

Teams will use Tuckman's (1965) forming, storming, norming, and performing team development model to ensure successful teamwork and develop leadership qualities. In addition, at the end of each team activity, you will email me a learning team evaluation form.

Academic Honesty: Academic honesty is highly valued at West Jordan High School. As such, your work must represent your original words and ideas. In addition, you must cite all sources used whether electronic or hard copy, using the APA citation format. Plagiarism will result in failing the assignment.

Grading Criteria: All assignments are due by the date noted on the calendar, no later than 10pm. If you know you will not have access to the Internet on the due date, you may submit the assignments, including DQs, ICs, and Team Evaluations as soon as they are completed. Please email me when you have posted them to your website and Group. Late assignments are worth 50% and nothing will be except after the drop-date date on the calendar.

Scoring for DQ, IC

And participation: DQs earn a maximum of 15 points each and will impact the portfolio grade. The weekly IC statement earns 30 points per week and will impact the participation grade. On-time, on-task participation earns 10 points per week and impacts the participation grade. Team evaluations and charters earn 25 points each and impact the participation grade. The participation grade represents 40% of the overall course grade. The other 60% is comprised of portfolio assignments.

Grade breakdown: Please refer to the course disclosure statement for grade breakdown details.

STANDARDS FOR WRITTEN WORK

Depth of scholarship

Assignments should represent your careful, thoughtful approach to cover the key elements of the topic thoroughly. Content should go beyond mere description or paraphrasing.

Originality of ideas and research

All assignments must demonstrate a unique, creative approach to the problem being studied and represent your original work.

Theoretical and conceptual framework

Assignments should display your understanding of the concepts relevant to the topic.

Grammar and spelling

Students should follow the six traits+1 writing traits for all assignments.

Grading scale for Written Work:

Criteria	Weighting
Depth of scholarship	10%
Originality of ideas and research	40%
Theoretical and conceptual framework	40%
Grammar and spelling	10%

COURSE TOPICS AND OBJECTIVES

Engineering design

- Design principles

Information and communication

- Basic web design
- GPS and GIS systems
- Wikis, blogs, and podcasts

Power and energy

- Resources
- Power systems
- Animatronics
- Electronics

TSA

Video Production

- Animation
- Sound
- Lighting
- Post production

Point Values For Course Assignments

DQs	15 Pts	TSA Participation	Extra Credit (TBD)
ICs	30 Pts	Team Evaluations	25 Pts
Disclosure	25 Pts	Team Charters	25 Pts
Lab Fee Receipt (\$10)	25 Pts	Final Exam	100 Pts
Assignments	200 Pts each		

3 rd Quarter		4 th Quarter	
Submittal	Total Points	Submittal	Total Points
DQs	75	DQs	60
IC's	120	IC's	120
Assignments	600	Assignments	400
Disclosure	25	Disclosure	N/A
Receipt	25	Disclosure	N/A
Team Charters	75	Team Charter	25
Team Evals	50	Team Evals	75
Final Exam	N/A	Final Exam	100
Total	970	Total	780

Course Schedule and Due Dates

1/23 (Tues) Disclosure Syllabus Website	1/25 (Thurs) DQ due	1/29 (Mon) Team Charter due	1/31 (Wed) Website due Chapter Team	2/1 (Fri) IC due Disclosure due
Engineering Design & TSA				
2/6 (Tues)	2/8 (Thurs) DQ due	2/12 (Mon)	2/14 (Wed) Receipts due Chapter Team	2/16 (Fri) IC due Design Project due
2/21 (Wed) Substitute Team Eval due	2/23 (Fri) DQ due	2/27 (Tues) Substitute?? Team Charter due Chapter Team	3/1 (Thurs) IC due	
Information and Communication & TSA				
3/6 (Tues)	3/8 (Thurs) DQ due	3/12 (Mon)	3/14 (Wed) IC due Info Assignments due Chapter Team	3/16 (Fri) State TSA Team Eval due
3/20 (Tues)	3/22 (Thurs) DQ due	3/26 (Mon) Team Charter due	3/28 (Wed) EOQ IC due	
Power & Energy				
4/2 (Mon)	4/4 (Wed) DQ due	4/11 (Wed)	4/13 (Fri) IC due P& E Assignment due	
4/17 (Tues) Team Eval due	4/19 (Thurs) DQ due	4/23 (Mon) Team Charter due	4/25 (Wed)	4/27 (Fri) IC due
Movie Production & Review				
5/1 (Tues)	5/3 (Thurs) DQ due	5/7 (Mon) Video Assignment Due	5/9 (Wed) Review Team Eval due	5/11 (Fri) IC due Review
5/15 (Tues) Review	5/17 (Thurs) DQ due Review	5/21 (Mon) Review	5/23 (Wed) Final Exam	5/25 (Fri) IC due Course Eval due
5/30 (Wed) Drop-dead day	6/5 (Tues) Last day of School			