



New Fellow Education Transfer Plan Cover Sheet

Title of ETP	Calculus Web Site Design
Name of IISME Fellow	Scott DeRuiter
Fellow's year-round email	scott_deruiter@fuhsd.org
Sponsor Company	Lockheed Martin
Name of Mentor	Marlene Cole and Jeannie David
National Board Certificate Area	Adolescence and Young Adulthood / Mathematics
<p>I, the IISME Fellow named above, affirm that the ETP I am submitting is my own work, that I acknowledged sources where appropriate, and that I avoided including any proprietary information of the Sponsor Company. By my submission I am assigning to IISME my entire copyright in the ETP. I understand IISME is simultaneously granting me a license to use the ETP for pedagogical purposes.</p>	
Signature	Date

Category	<p><i>Curriculum</i></p> <p>Subject: Math Science Technology _____</p> <p>Level: Elem Middle High Other</p> <p><i>Staff Development</i></p> <p>Describe _____</p> <p><i>Other</i></p> <p>Describe _____</p>
Objectives	<p>National Board for Professional Teaching Standards, http://www.nbpts.org/, 6/29/04 Adolescence and Young Adulthood/Mathematics Standard V: Knowledge of Teaching Practice (p.27) “Accomplished teachers recognize the opportunities afforded by the new tools – access to new ideas and new ways of representing and manipulating them – and effectively use the tools to deepen and enrich students’ mathematical learning. They continually improve their own skills and fluency with these tools and reexamine their teaching practice in light of what the tools make possible.”</p>

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Abstract (50 words or less)	I currently manage a calculus website at my school. I have spent hundreds of hours developing this site, but I feel that I have a lot of room for improvement in two areas: (1) The design of the site does not encourage students to linger. It is not “cool”. (2) I want to design and complete some animations that will help students understand some of the more important concepts of calculus. As indicated above, I want to use Javascript and Java to improve the effectiveness of my site.
Describe how your ETP aligns with the National Board Standard stated in your proposal.	I want to use my calculus web site to effectively communicate some important calculus concepts, and I want to learn and/or utilize Javascript and Java to do this.
Describe the connection between your ETP and the Summer Fellowship.	This summer, I am working with the IT group for the Fleet Ballistic Missiles division of Lockheed Martin. My task is to look at how a portal might be implemented for this segment of the company. In my work, I have had the chance to meet with several programmers and web designers, and I want to use their expertise to help me in my goal of using my website(s) as a better communication tool.
Resources Needed	I will need a computer, some materials on using Javascript, and a Java compiler.
Evaluation/Assessment Measures Used	I will ask my students for some feedback regarding the original site, and then set up the new site one month into the school year. Once I get the site up and running, I will provide a survey to my students to get some feedback and make improvements.
Formatting specifications	PC <u> X </u> or Mac <u> </u> (Must be in Word or Text Format) Software used <u> Microsoft Word </u>
Submitted Copy	Soft and hard copy due to peer coach by the end of the summer fellowship. Also, a copy of the cover sheet signed by a school site administrator submitted to IISME Oct.3, 2004 to receive \$300 grant.

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I, the **Mentor** named above [please select one of the following],

- have read the attached ETP, and my comments, if any, appear below.
- have read the attached ETP, and, as outlined in the IISME-Company Fellowship Agreement, have reviewed it on behalf of the Sponsor Company, and have determined that the ETP does not contain any Sponsor-proprietary information. My additional comments, if any, appear below.

Comments:

Signature

Date

Administrator's comments:

Signature

Date

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Evaluation of Scott DeRuiter's BC Calculus Website:

For all of the questions below, assume that 10 represents the highest possible score, and 1 the lowest.

1. Rate the website's usability (Does it have the things you need to succeed in this class?)

1 2 3 4 5 6 7 8 9 10

2. Rate the website's structure and organization (Are things placed logically? Is there an intuitive flow to where things can be found?)

1 2 3 4 5 6 7 8 9 10

3. Rate the website's "wow" factor (Is it pleasing to the eye? Are you tempted to linger?)

1 2 3 4 5 6 7 8 9 10

4. What is missing from the site? Are there things that you would like to see on the site that are not there? Are there some other calculus materials that might be incorporated or linked to from other sites (continue on other side, if necessary)?

5. Do you have suggestions for the organization of the site? Are there some links that seem to be poorly placed (continue on other side, if necessary)?

6. How could the "wow" factor be increased? Do you know of some cool sites that are just fun to navigate, regardless of content (continue on other side, if necessary)?

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A Reflection on Redesigning my BC Calculus website

As stated earlier in my ETP cover sheet, my primary goal in redesigning my website has been to: (1) make it “cooler” and (2) make it better organized. I teach a Java class, so I wanted to use some of my Java knowledge to enhance my site, and I also wanted to use Javascript, a scripting language commonly used with browsers.

In looking to make my site more pleasing to the eye, I investigated some “Best of the Web” lists. I found an art site that I really liked, at <http://www.adcglobal.org/main.html>, and I decided to use the front page at this site as a model for my own.

Some of the challenges that I encountered included: (1) Finding a balance between the use of nice graphics images and the need to keep the “weight” of the site low, so that it could be viewed even over slow connections without a great deal of wait time, (2) Learning Javascript. My programming background in Java helped, but I still spent a great deal of time just dealing with syntax issues and trying to make use of the built-in capabilities of this scripting language. (3) My lack of artistic ability. I tried to mimic others, but to build a superb website, you need a true artistic flair – something I lack.

Now that the redesign is done, I am excited to “roll it out” at the end of September. I will wait until September because I want my students to compare and contrast it to my calculus site as it existed at the end of last year. I feel a good deal of satisfaction, mixed with some apprehension at how my work will be received.

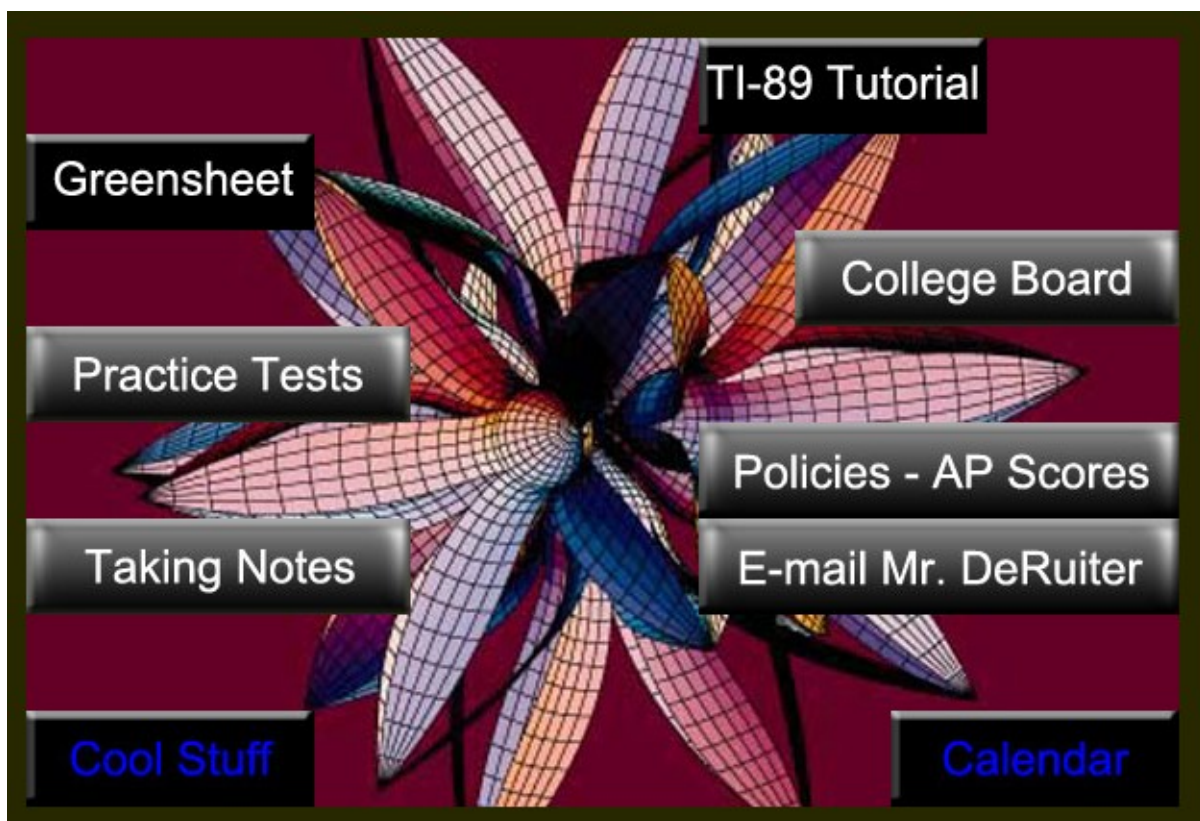
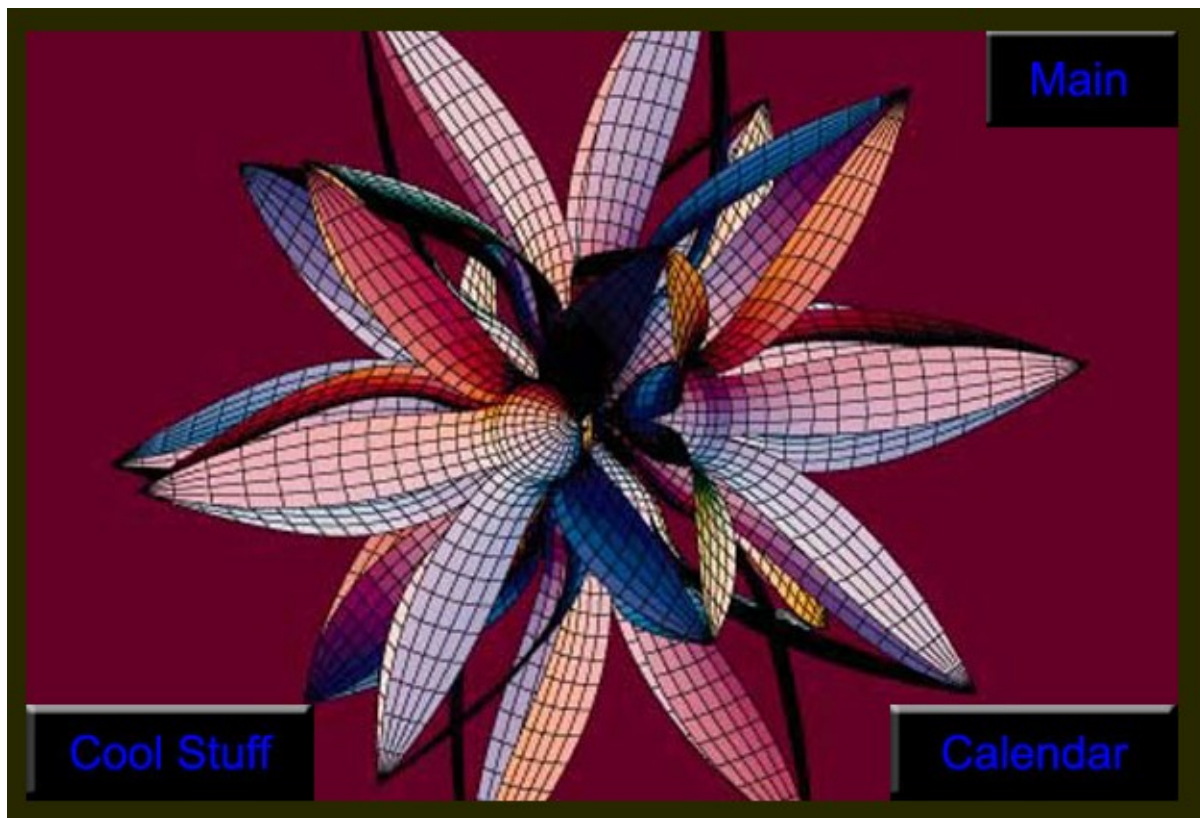
If I had it to do over again, I think I would have bit off a little less to chew. My plans were a little too ambitious, and I should have worked changing my site on a slightly smaller scale. I feel that I learned a great deal, though, and I hope that I can use this experience to redesign another site that I currently use for my Java class.

You can find my new website at www.mvhs.fuhsd.org/scott_deruiter/

You can see a few screen shots from my website on the following pages:

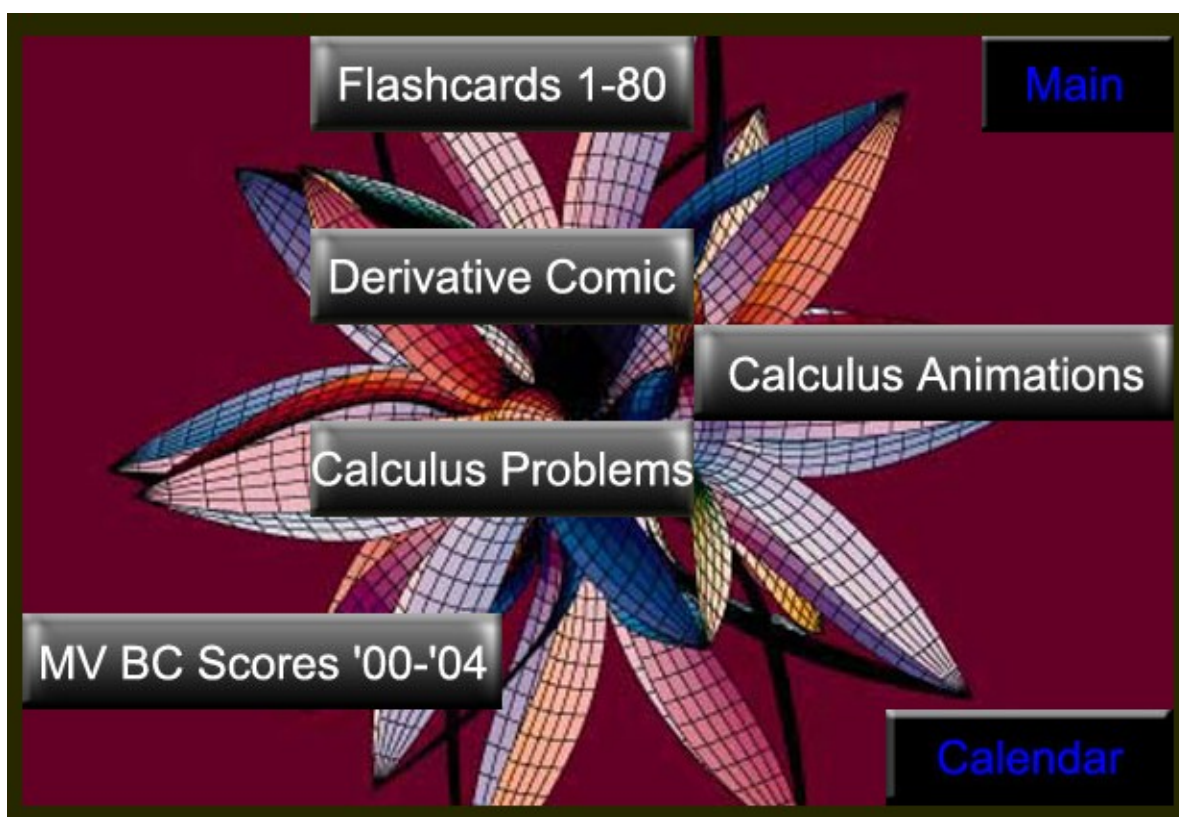
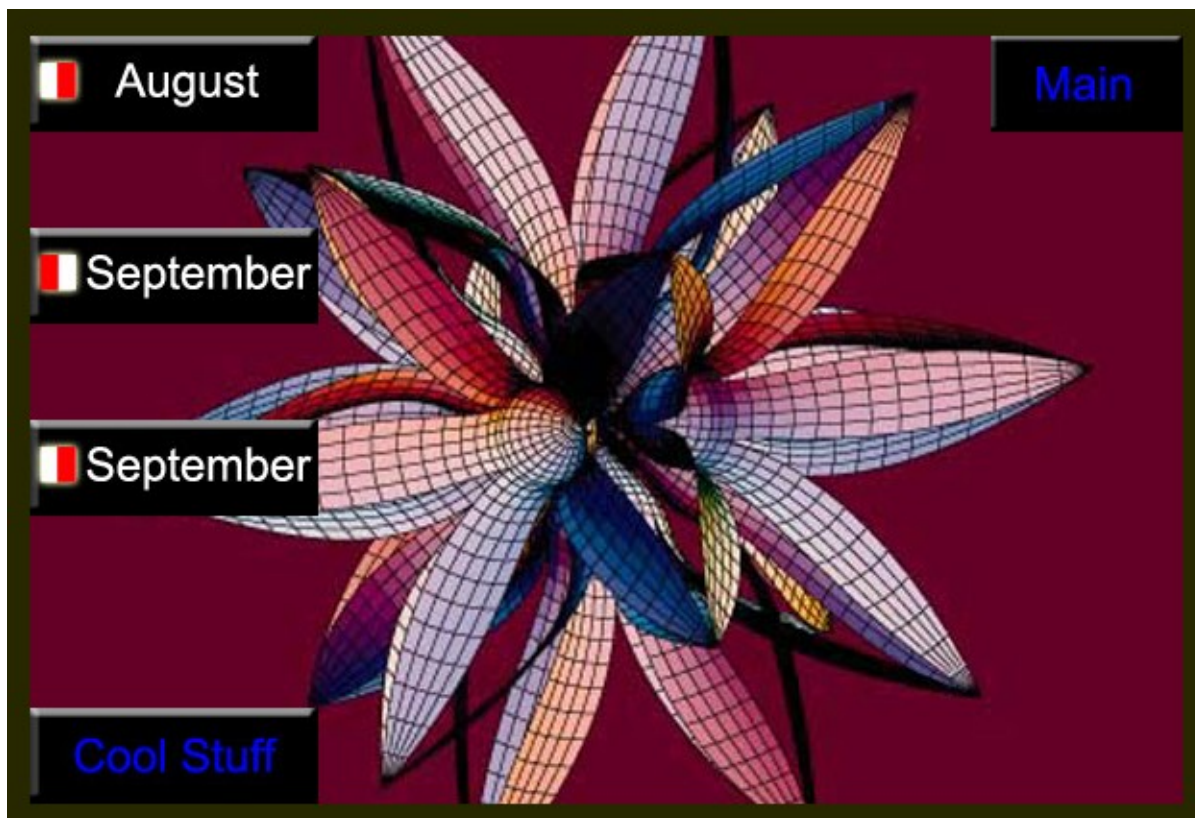
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