



**JVA CONSULTING, LLC**  
partners in community and social change



**COLORADO COMMUNITY  
COLLEGE SYSTEM**

**Colorado Community College System (CCCS)  
Immersive and Game-Based Learning Programs Evaluation  
Round II**

*Fall 2013 Project Update, November 2013  
prepared by Angie Davlyn*

**Database creation.** JVA created a database of all project details for each of the 24 total projects using information from IGBL proposals. There are 18 Round II projects and six continuing Round I projects:

<b>STUDENT-FOCUSED PROGRAMS</b>		
<b>Project Name / CCCS Institution</b>	<b>Project Lead</b>	<b>Implementation Schedule</b>
<b>Persuasive Power of Videogames @ Arapahoe CC</b>	Sherry Jones	Fall 2013 only
<b>ACCESS @ CC Denver</b>	Roseann Bohar	Fall 2013–Spring 2014
<b>Diesel Fundamentals @ Trinidad State Junior College</b>	Eric O'Brien	Fall 2013–Spring 2014
<b>Robot Technologies Program @ Trinidad State JC</b>	Brian Cumby	Fall 2013–Spring 2014
<b>In Their Virtual Shoes @ Arapahoe CC</b>	Michelle Emerson-Lewis	Fall 2013–Spring 2014
<b>Colorado Reacting to the Past @ PPCC</b>	Glenn Rohlfing	Fall 2013–Spring 2014
<b>HVA Gaming @ Red Rocks CC</b>	Larry Snyder	Fall 2013–Spring 2014
<b>Virtual Environment for Instruction Project @ RRCC &amp; FRCC</b>	Christie Burton	Fall 2013–Spring 2014
<b>Psychology Gaming Lab @ FRCC-Westminster and others</b>	Jessica Mahoney	Fall 2013–Spring 2014
<b>Colorado Virtual Studio System @ CC Aurora Film</b>	Frederic Lahey	Spring 2014 only
<b>TheiaSys @ CC Aurora Film</b>	Frederic Lahey	Spring 2014 only
<b>Linear Equations Battleship @ CC Denver</b>	Linda Sue Hoops	Spring 2014 only
<b>Exponential Blocks @ CC Denver</b>	Linda Sue Hoops	Spring 2014 only
<b>Ethical Theory Adventure Game @ PPCC</b>	Richard Trussell	Spring 2014 only
<b>CO2 Car Design Challenge @ Trinidad State JC</b>	Brian Cumby	Spring 2014 only
<b>CCCS Hackathon @ FRCC / CCCOnline</b>	Christopher Luchs	Spring 2014 only
<b>Knowledge Quest @ CC Denver</b>	Kelly Zepp	Spring 2014 only
<b>Law and Order @ CC Aurora</b>	Margaret Unchner	Spring 2014 only
<b>Model UN @CC Aurora</b>	Bobby Pace	Spring 2014 only
<b>Checking in: Business Behind the Scenes @ CC Aurora</b>	Tamra Schmitt	Spring 2014 only
<b>Electric Vehicle Sim @ Morgan CC</b>	Brad Parker	Spring 2014 only
<b>INSTRUCTOR-FOCUSED PROGRAMS</b>		
<b>Project Name / CCCS Institution</b>	<b>Project Lead</b>	<b>Implementation Schedule</b>
<b>Going Beyond the Book @ CC of Aurora</b>	Joann Burkhart	Fall 2013–Spring 2014
<b>Best of Blended Learning @ CC Aurora</b>	Joann Burkhart	Round 1
<b>Shared Vision @ CC Denver</b>	Heidi Loshbaugh	Fall 2013–Spring 2014

Twelve projects are being implemented during the Fall 2013 semester (including one project that is only implementing in Fall 2013), and the remaining twelve will implement for the first time in the Spring 2014 semester.

**Webinar facilitation.** In February 2013, JVA created a PowerPoint presentation and presented it during the evaluation section of a CCCS webinar on February 15, 2013 to CCCS IGBL Round 2 project leaders. The webinar focused on introducing JVA to the group; gave an overview of the project and evaluation; described the types (i.e., outcome and process) and levels (i.e., individual programs and program-wide across all sites) of evaluation that JVA will employ; walked leaders through the anticipated timeline; detailed what is needed from each leader; and outlined next steps in the evaluation process.

**Customized outreach.** In August, JVA created a survey tool to determine basic information from project leads. All leads were contacted about the survey in September, and 11 (46%) completed the informational survey.

In September and October 2013, JVA associates reached out via email to all project leads to schedule individual phone conferences about each project. JVA has connected to 22 out of 24 total project leads (92%) to date via phone or email. During these meetings, JVA discussed our role as IGBL evaluators, talked about what types of outcome and process data will be collected, discussed a timeline of project and evaluation implementation (including possible timing of visits from JVA evaluators to see the programs in action), and asked leads to share any updates or changes to the program that have been made since their proposals were created.

Follow-up phone calls were made for the leads who did not respond to the email reach out on 10/26 and again on 11/6 and 11/10. To date, the project leads who have **not** responded to email or voicemail as of 11/12/13 include:

- Checking In: Business Behind the Scenes @ CC Aurora (Tamra Schmitt)
- Electric Vehicle Sim @ Morgan CC (Brad Parker)

**Student outcomes survey.** JVA associates reviewed the Round 1 student outcomes online survey and made improvements based on Round 1 data collection efforts. Next week (late November), JVA will reach out to all project leads for input and to determine if any leads requested customized questions. This feedback will be incorporated into the Round 2 student survey, and customized surveys will be built as needed. The nine student-focused projects implementing this semester will be asked to share the survey with their students in early December 2013.

**Student outcome data.** During Round 1, a plan was developed to retrieve student data to ensure compliance with FERPA requirements. Near the conclusion of the Fall 2013 and Spring 2014 semesters, JVA will submit course information to the CCCS, who will aggregate and de-identify student data to send to JVA for the final report.

**Project lead process and outcome interviews.** JVA made improvements to the project lead/instructor outcome and process interview protocol developed in Round 1 for use during Round 1. To date, JVA associates have conducted interviews with six leads (see below for a list). This represents 67% of all leads implementing Round 2 IGBL projects during the Fall 2013 semester. JVA has scheduled interviews with three additional projects Fall 2013 projects that will be conducted in November. Interviews will be scheduled with the remaining leads (those implementing in Spring 2014) next semester.

**Site visits.** To date, site visits have been completed at four projects (see below for a list). This represents 44% of all student-focused projects being implemented this semester. Site visits will be scheduled with the remaining leads (those implementing in Spring 2014) next semester. During visits to these projects, JVA associates also had the opportunity to briefly interview students on their experiences with the immersive components of the course. Site visits are currently being scheduled for the remaining projects throughout the Spring 2013 semester.

**Confirmed JVA deliverables to date (as of close of business on 11/12/2013):**

- Completed project kickoff meeting
- Developed project timeline for surveys, interviews and site visits
- Developed detailed project database
- Developed PowerPoint and facilitated evaluation segment of IGBL webinar
- Developed student outcome survey
- Developed teacher interview protocol
- Completed customized outreach out to all (100%) project leads (first by email, and follow-up by phone and email where needed)
- Completed site visits to four projects (19% of all student-focused projects):
  - Persuasive Power of Videogames @ Arapahoe CC (completed 11/5/2013)
  - ACCESS @ CC Denver (completed 11/12/2013)
  - Diesel Fundamentals @ Trinidad State JC (completed 4/23/2013 and scheduled again for 11/19/2013)
  - Robot Technologies and Competition Program @ Trinidad State JC (completed 4/23/2013 and scheduled again for 11/18/2013)
- Completed instructor interviews with leads from six projects (25% of all projects)
  - Persuasive Power of Videogames @ Arapahoe CC (completed with Sherry Jones on 11/5/2013)
  - ACCESS @ CC Denver (completed with Roseann Bohar on 11/12/2013)
  - Robot Technologies and Competition Program @ Trinidad State JC (completed with Brian Cumby on 4/23/2013 and scheduled again for 11/18/2013)
  - Going Beyond the Book @ CC of Aurora (completed with JoAnne Burkhart on 5/2/2013)
  - Best of Blended Learning @ CC Aurora (completed with JoAnne Burkhart on 11/4/2013)
  - Shared Vision @ CC Denver (completed with Heidi Loshbaugh on 10/30/2013)

**Ongoing JVA activities**

Anticipated completion date	Activity
November 2013	Conduct meetings (in-person and by phone) with leads to discuss any desired customizations to survey and ensure the system-wide evaluation supports leaders' internal evaluation efforts
December 2013	Deliver Fall 2013 student outcome survey Complete all project lead interviews for projects implementing in the Fall 2013 semester, including: <ul style="list-style-type: none"> <li>• In Their Virtual Shoes: Domestic Violence @ Arapahoe CC (TBD with Michelle Emerson Lewis)</li> <li>• Colorado Reacting to the Past @ PPCC (scheduled with Glenn Rohlfing on</li> </ul>

	<p>11/26/2013)</p> <ul style="list-style-type: none"> <li>• HVA Gaming @ Red Rocks CC (scheduled with Larry Snyder on 11/20/2013)</li> <li>• Virtual Environment for Instruction Project @ RRCC and FRCC (scheduled with Christie Burton on 11/21/2013)</li> <li>• Diesel Fundamentals @ Trinidad State JC (scheduled with Eric O'Brien for 11/19/2013)</li> </ul>
	<p>Complete all site visits for projects implementing in the Fall 2013 semester, including:</p> <ul style="list-style-type: none"> <li>• In Their Virtual Shoes: Domestic Violence @ Arapahoe CC (scheduled for 11/14/2013)</li> <li>• Robotics Technology Program @ Trinidad JC (scheduled for 11/18/2013)</li> <li>• Diesel Simulator @ Trinidad JC (scheduled for 11/19/2013)</li> <li>• HVA Gaming @ Red Rocks CC (scheduled for 11/20/2013)</li> <li>• Red Rocks CC / Front Range CC: Virtual Environment for Instruction (scheduled for 11/21/2013)</li> <li>• TheiaSys @ CC Aurora Film (to be scheduled 12/2013)</li> <li>• Virtual Studio System @ CC Aurora Film (to be scheduled 12/2013)</li> <li>• Colorado Reacting to the Past @ Pikes Peak CC (TBD)</li> </ul>
	<p>Collect any additional student outcome or instructor/administrator process data for Fall 2013</p>
January 2014	<p>Complete preliminary data analysis of student outcome surveys (for projects implementing in the Fall 2013 semester)</p>
	<p>Receive Fall 2013 grades data from CCCS</p>
February 2014	<p>Reach out to all leads implementing in the Spring 2014 semester</p>
	<p>Present Round 1 evaluation results at the CCCS Immersion Excursion conference</p>
June 2014	<p>Deliver Spring 2014 student outcome survey</p>
	<p>Complete all project lead interviews for projects implementing in the Spring 2014 semester:</p> <ul style="list-style-type: none"> <li>• Psychology Gaming Lab (TBD with Jessica Mahoney)</li> <li>• TheiaSys @ CC Aurora Film (TBD with Frederic Lahey)</li> <li>• Virtual Studio System @ CC Aurora Film (TBD with Frederic Lahey)</li> <li>• Linear Equations Battleship @ CC Denver (TBD with Linda Sue Hoops)</li> <li>• Exponential Blocks @ CC Denver (TBD with Linda Sue Hoops)</li> <li>• Ethical Theory Adventure Game @ PPCC (TBD with Richard Trussell)</li> <li>• CO2 Car Design Challenge @ Trinidad JC (TBD with Brian Cumby)</li> <li>• CCCS Hackathon @ FRCC / CCCOnline (TBD with Christopher Luchs)</li> <li>• Knowledge Quest @ CC Denver (TBD with Kelly Zepp)</li> <li>• Law and Order @ CC Aurora (TBD with Margaret Unchner)</li> <li>• Model UN @CC Aurora (TBD with Bobby Pace)</li> <li>• Checking In: Business Behind the Scenes @ CCAurora (TBD with Tamra Schmitt)</li> <li>• Electric Vehicle Sim @ Morgan CC (TBD with Brad Parker)</li> </ul>
	<p>Complete all site visits for projects implementing in the Spring 2014 semester (and who were not implementing in Fall 2013):</p> <ul style="list-style-type: none"> <li>• Law and Order @ CC Aurora (TBD)</li> <li>• Model United Nations @ CC Aurora (TBD)</li> </ul>

	<ul style="list-style-type: none"> <li>• Exponential Blocks @ CC Denver (TBD)</li> <li>• Knowledge Quest @ CC Denver (TBD)</li> <li>• Shared Vision @ CC Denver (TBD)</li> <li>• Linear Equations Battleship @ CC Denver (TBD)</li> <li>• CCCS Hackathon @ Front Range CC / CCCOnline (TBD)</li> <li>• Ethical Theory Adventure Game @ Pikes Peak CC (TBD)</li> <li>• CO2 Car Design Challenge @ Trinidad JC (TBD)</li> </ul>
	Collect any additional student outcome or instructor/administrator process data for Spring 2014
	Complete all data collection processes for Round 2
July 2014	Receive Spring 2014 grades data from CCCS
August 2014	Complete analysis of all collected data for Round 2
	Produce a data placemat and share preliminary results during a collaborative data analysis meeting
September 2014	Produce a draft and final report that will include methodology, all completed analysis, key findings, a final summary and recommendations
TBD 2014	Report out on data during stakeholders meeting

**APPENDIX A: Evaluation Progress to date (see attached PDF)**

Project Name	Lead	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	SUMMER 2014	Program survey?	Site visit?	Teacher interview?	Student interview?	Student survey Fall 2013	Student survey Spring 2014	Student data Fall 2013 (grades)	Student data Spring 2014 (grades)
Persuasive Power of Videogames @ Arapahoe CC	Sherry Jones	site visit 11/5									NO	11/5/13	11/5/13	11/5/13		n/a		n/a
ACCESS @ CC Denver	Roseann Bohar	site visit 11/12									YES	11/12/13	11/12/13	no				
Diesel Fundamentals @ Trinidad State JC	Eric O'Brien	site visit 11/19									NO	4/23/2013 & 11/19/2013	11/19/13	4/23/13				
Robot Technologies and Competition Program @ Trinidad State JC	Brian Cumby	site visit 11/18									NO	4/23/2013 & 11/18/2013	4/23/13	4/23/13				
In Their Virtual Shoes @ Arapahoe CC	Michelle Emerson-Lewis	reconnect to schedule									NO	planned for 11/14 but lead cancelled, will reschedule	planned for 11/14 but lead cancelled, will reschedule	planned for 11/14 but lead cancelled, will reschedule				
Colorado Reacting to the Past @ PPCC	Glenn Rohlfing	site visit 11/26									NO	11/26/13	11/26/13	11/26/13				
HVA Gaming @ Red Rocks CC	Larry Snyder	site visit 11/20									YES	11/20/13	11/20/13	11/20/13				
Virtual Environment for Instruction Project @ RRCC and FRCC	Christie Burton	site visit 11/21									NO	11/21/13	11/21/13	11/21/13				
Psychology Gaming Lab @ FRCC-Westminster	Jessica Mahoney			schedule teacher interview							YES	online course visit in Spring 2014						
Colorado Virtual Studio System @ CC Aurora Film	Frederic Lahey			reconnect to schedule							NO				n/a		n/a	
TheiaSys @ CC Aurora Film	Frederic Lahey			reconnect to schedule							NO				n/a		n/a	
Linear Equations Battleship @ CC Denver	Linda Sue Hoops			reconnect to schedule							YES				n/a		n/a	
Exponential Blocks @ CC Denver	Linda Sue Hoops			reconnect to schedule							YES				n/a		n/a	
Ethical Theory Adventure Game @ PPCC	Richard Trussell			reconnect to schedule							YES				n/a		n/a	
CO2 Car Design Challenge @ Trinidad JC	Brian Cumby			reconnect to schedule							NO				n/a		n/a	
CCCS Hackathon @ FRCC / CCCOnline	Christopher Luchs			reconnect to schedule							NO				n/a		n/a	
Knowledge Quest @ CC Denver	Kelly Zepp			reconnect to schedule							YES				n/a		n/a	
Law and Order @ CC Aurora	Margaret Unchner			reconnect to schedule							YES				n/a		n/a	
Model UN @CC Aurora	Bobby Pace			reconnect to schedule							NO				n/a		n/a	
Checking in: Business Behind the Scenes @ CC Aurora	Tamra Schmitt	?	?	?	?	?	?	?	?		NO							
Electric Vehicle Sim @ Morgan CC	Brad Parker	?	?	?	?	?	?	?	?		NO							
Going Beyond the Book @ CC of Aurora	Joann Burkhart	(teacher project from Round 1)									YES	n/a	5/2/13	n/a	teacher surveys instead	teacher surveys instead	teacher surveys instead	teacher surveys instead
Best of Blended Learning @ CC Aurora	JoAnnn Burkhart	(teacher project)									YES	n/a	11/4/13	n/a	teacher surveys instead	teacher surveys instead	teacher surveys instead	teacher surveys instead
Shared Vision @ CC Denver	Heidi Loshbaugh	(teacher project)									YES	n/a	10/30/13	n/a	teacher surveys instead	teacher surveys instead	teacher surveys instead	teacher surveys instead